=> file registry
FILE 'REGISTRY' ENTERED AT 14:36:38 ON 29 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5
DICTIONARY FILE UPDATES: 28 DEC 2005 HIGHEST RN 870751-96-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> file caplus
FILE 'CAPLUS' ENTERED AT 14:36:45 ON 29 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

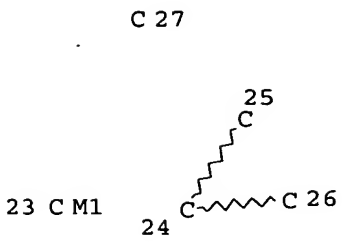
FILE COVERS 1907 - 29 Dec 2005 VOL 144 ISS 1
FILE LAST UPDATED: 28 Dec 2005 (20051228/ED)

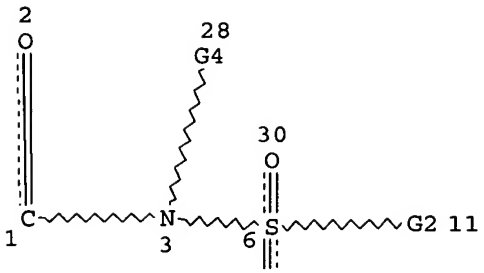
Effective October 17, 2005, revised CAS Information Use Policies apply.

They are available for your review at:

http://www.cas.org/infopolicy.html
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d stat que L69
L2 118 SEA FILE=REGISTRY ABB=ON PLU=ON (7719-09-7/BI OR 929-06-6/BI OR 128-44-9/BI OR 25086-15-1/BI OR 81-07-2/BI OR 851778-65-9/BI OR 10025-78-2/BI OR 108-30-5/BI OR 108-55-4/BI OR 110-71-4/BI OR 111-19-3/BI OR 121-44-8/BI OR 147072-47-7/BI OR 157090-59-0/BI OR 23483-56-9/BI OR 3007-31-6/BI OR 335-05-7/BI OR 34310-29-7/BI OR 41643-17-8/BI OR 456-64-4/BI OR 6066-82-6/BI OR 7087-68-5/BI OR 71310-21-9/BI OR 7440-21-3/BI OR 75-09-2/BI OR 851778-52-4/BI OR 851778-53-5/BI OR 851778-54-6/BI OR 851778-55-7/BI OR 851778-58-0/BI OR 851778-59-1/BI OR 851778-60-4/BI OR 851778-61-5/BI OR 851778-62-6/BI OR 851778-63-7/BI OR 851778-69-3/BI OR 852233-93-3/BI OR 852233-95-5/BI OR 868-77-9/BI OR 100-42-5/BI OR 104-15-4/BI OR 118216-33-4/BI OR 124-22-1/BI OR 1333-07-9/BI OR 13472-08-7/BI OR 138-41-0/BI OR 1484-13-5/BI OR 149-73-5/BI OR 18358-13-9/BI OR 2016-57-1/BI OR 22535-49-5/BI OR 22808-73-7/BI OR 24937-79-9/BI OR 25067-59-8/BI OR 25190-89-0/BI OR 2530-85-0/BI OR 25322-68-3/BI OR 26249-38-7/BI OR 2680-03-7/BI OR 27072-45-3/BI OR 27236-80-2/BI OR 31049-18-0/BI OR 38460-95-6/BI OR 4420-74-0/BI OR 51178-68-8/BI OR 54773-31-8/BI OR 56-87-1/BI OR 56992-87-1/BI OR 6155-57-3/BI OR 63-74-1/BI OR 64114-51-8/BI OR 67584-59-2/BI OR 68-12-2/BI OR 74-89-5/BI OR 7440-32-6/BI OR 7440-44-0/BI OR 7440-57-5/BI OR 75-44-5/BI OR 75-76-3/BI OR 7534-94-3/BI OR 76-32-4/BI OR 760-93-0/BI OR 80-62-6/BI OR 814-68-6/BI OR 826-62-0/BI OR 851778-56-8/BI OR 851778-57-9/BI OR 851778-64-8/BI OR 851778-66-0/BI OR 851778-67-1/BI OR 851778-68-2/BI OR 851778-70-6/BI OR 851778-71-7/BI OR 851934-33-3/BI OR 851934-34-4/BI OR 851934-43-5/BI OR 851934-44-6/BI OR 851934-46-8/BI OR 851934-47-9/BI OR 851934-48-0/BI OR 851934-76-4/BI OR 852233-89-7/BI OR 852233-94-4/BI OR 852233-96-6/BI OR 859232-48-7/BI OR 859232-49-8/BI OR 859500-21-3/BI OR 860032-10-6/BI OR 860032-11-7/BI OR 860032-12-8/BI OR 860032-13-9/BI OR 860032-14-0/BI OR 860032-15-1/BI OR 872-50-4/BI OR 9003-53-6/BI OR 9011-14-7/BI OR 92-84-2/BI OR 999-61-1/BI)
L3 STR





Page 1-A

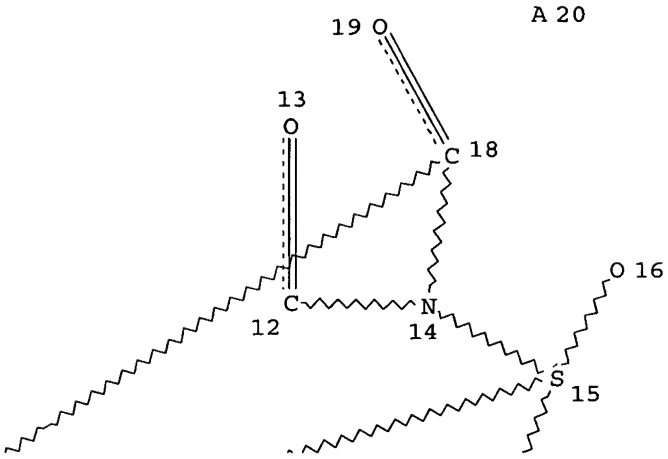
Ak 4

Cy 5

Page 1-B

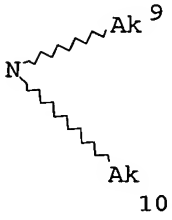
G3 22

8

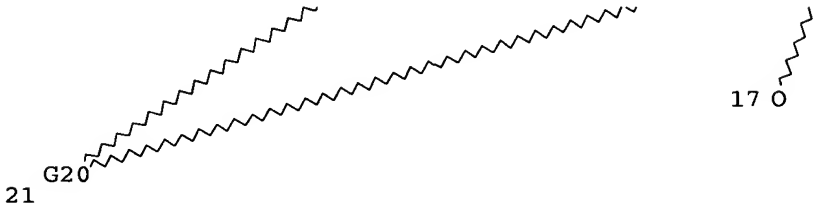


Page 2-A

N 7



Page 2-B



Page 3-A
VAR G2=4/5/7/8
VAR G3=1/12
VAR G4=5/23/24/27
REP G20=(1-5) 20-15 20-18

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NODE ATTRIBUTES:
HCOUNT  IS M1      AT  23
NSPEC   IS C       AT   1
NSPEC   IS C       AT   2
NSPEC   IS C       AT   3
NSPEC   IS C       AT   4
NSPEC   IS C       AT   5
NSPEC   IS C       AT   6
NSPEC   IS R       AT   7
NSPEC   IS C       AT   8
NSPEC   IS C       AT   9
NSPEC   IS C       AT  10
NSPEC   IS C       AT  11
NSPEC   IS C       AT  12
NSPEC   IS C       AT  13
NSPEC   IS R       AT  14
NSPEC   IS R       AT  15
NSPEC   IS C       AT  16
NSPEC   IS C       AT  17
NSPEC   IS R       AT  18
NSPEC   IS C       AT  19
NSPEC   IS R       AT  20
NSPEC   IS R       AT  21
NSPEC   IS C       AT  22
NSPEC   IS C       AT  23
NSPEC   IS C       AT  24
NSPEC   IS C       AT  25
NSPEC   IS C       AT  26
NSPEC   IS C       AT  27
NSPEC   IS C       AT  28
NSPEC   IS C       AT  29
NSPEC   IS C       AT  30
CONNECT IS E1  RC AT  16
CONNECT IS E1  RC AT  17
CONNECT IS E4  RC AT  27
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   1  2  3  4  6  8  9 10 12 13 16 17 19 23 24 25 26
          27 29 30
GGCAT   IS UNS  AT   5
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  30

STEREO ATTRIBUTES: NONE
L4          9125 SEA FILE=REGISTRY SSS FUL L3
L7               STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L11              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L13              STR
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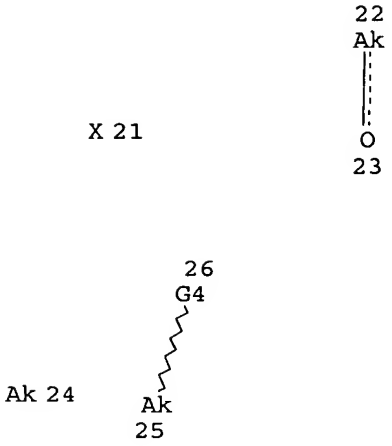
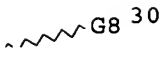
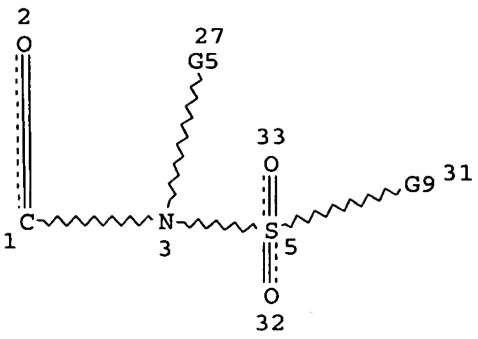


Page 1-A

Ak 29



Page 1-B



28 Cy

Cy 4

N 6

G3 20

7 N

A 18

17 O

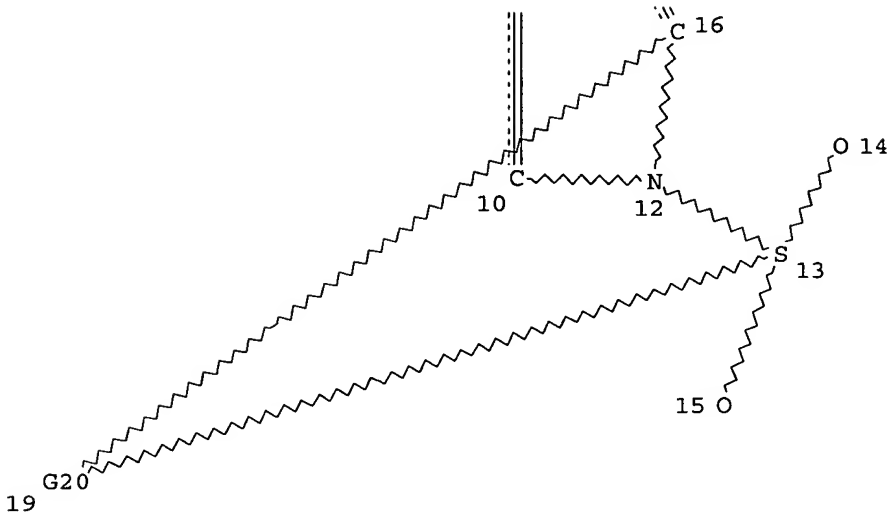
11
O

Page 2-A

G6 8

G6 9

Page 2-B



Page 3-A
VAR G3=1/10
VAR G4=21/23
VAR G5=4/24/25
VAR G6=24/25
VAR G8=21/23/29
VAR G9=4/6/7/24/25/28
REP G20=(1-5) 18-13 18-16
NODE ATTRIBUTES:

NSPEC	IS C	AT	1
NSPEC	IS C	AT	2
NSPEC	IS C	AT	3
NSPEC	IS C	AT	4
NSPEC	IS C	AT	5
NSPEC	IS R	AT	6
NSPEC	IS C	AT	7
NSPEC	IS C	AT	8
NSPEC	IS C	AT	9
NSPEC	IS C	AT	10
NSPEC	IS C	AT	11
NSPEC	IS R	AT	12
NSPEC	IS R	AT	13
NSPEC	IS C	AT	14
NSPEC	IS C	AT	15
NSPEC	IS R	AT	16
NSPEC	IS C	AT	17
NSPEC	IS R	AT	18
NSPEC	IS R	AT	19
NSPEC	IS C	AT	20
NSPEC	IS C	AT	21
NSPEC	IS C	AT	22
NSPEC	IS C	AT	23
NSPEC	IS C	AT	24
NSPEC	IS C	AT	25
NSPEC	IS C	AT	26
NSPEC	IS C	AT	27
NSPEC	IS C	AT	28
NSPEC	IS C	AT	29
NSPEC	IS C	AT	30

```
NSPEC   IS C       AT  31
NSPEC   IS C       AT  32
NSPEC   IS C       AT  33
CONNECT IS E1  RC AT   4
CONNECT IS E1  RC AT  14
CONNECT IS E1  RC AT  15
CONNECT IS E1  RC AT  24
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   1  2  3  5  7 10 11 14 15 17 21 22 23 24 25 29 32
          33
GGCAT   IS UNS  AT   4
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  33

STEREO ATTRIBUTES: NONE
L15         2986 SEA FILE=REGISTRY SUB=L4 SSS FUL L13
L19         1085 SEA FILE=REGISTRY SUB=L15 SSS FUL L7
L21          754 SEA FILE=REGISTRY SUB=L15 SSS FUL L11
L24              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L26          691 SEA FILE=REGISTRY SUB=L19 SSS FUL L24
L28              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L30          372 SEA FILE=REGISTRY SUB=L21 SSS FUL L28
L34              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L36          283 SEA FILE=REGISTRY SUB=L30 SSS FUL L34
L38              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L40          432 SEA FILE=REGISTRY SUB=L26 SSS FUL L38
L44              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L46          210 SEA FILE=REGISTRY SUB=L36 SSS FUL L44
L47              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L49          269 SEA FILE=REGISTRY SUB=L40 SSS FUL L47
L50          315 SEA FILE=REGISTRY ABB=ON  PLU=ON  L49 OR L46
L51          138 SEA FILE=CAPLUS ABB=ON  PLU=ON  L50
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L60          16 SEA FILE=REGISTRY ABB=ON  PLU=ON  L50 AND L2
L62           7 SEA FILE=CAPLUS ABB=ON  PLU=ON  L60
L69         131 SEA FILE=CAPLUS ABB=ON  PLU=ON  L51 NOT L62


=> d ibib abs hitstr L69 65-131

L69  ANSWER 65 OF 131  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1992:43341  CAPLUS
DOCUMENT NUMBER:          116:43341
TITLE:                    Cast-coated paper and internally-added
                          fluorine-containing surfactants for improving its
                          parting from mirror drums
INVENTOR(S):              Imai, Tetsuo; Nojima, Kazuhiro; Takahashi, Mikio
PATENT ASSIGNEE(S):       Kanzaki Paper Mfg. Co., Ltd., Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 15 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     JP 03213595           A2    19910918    JP 1990-10179           19900118
     JP 2883139            B2    19990419
PRIORITY APPLN. INFO.:                       JP 1990-10179           19900118
OTHER SOURCE(S):          MARPAT 116:43341
AB   The title surfactants are selected from (A) C4-20 (per)fluorinated alkyl
     or alkenyl (optionally interrupted with O or bivalent bridge) esters of
     phosphoric acid or its salts; (B) similar esters of sulfonic acid or its
     salts, (C) similar esters of carboxylic acid or its salts, and (D)
     similarly (per)fluorinated alkyl- or alkenyl(quaternary ammonium) compds.
     A typical parting aid surfactant such as C8F17SO2N(Pr)C2H4OP(O)(OH)2 was
     incorporated at 0.5% (based on total pigments) level to a casein-SBR
     latex-based coating on paper, and showed continuation of smooth sheet
     parting in an ordering cast coating process for >12 h.
IT   138473-78-6
     RL: USES (Uses)
        (parting agents, for cast coating compns. on paper)
RN   138473-78-6  CAPLUS
CN   Carbamic acid, [(nonafluorobutyl)sulfonyl]propyl-, sodium salt (9CI)  (CA
     INDEX NAME)
```

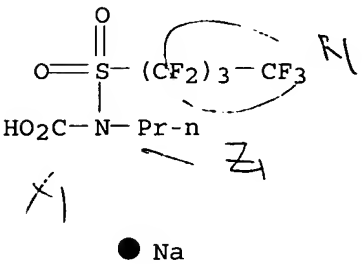


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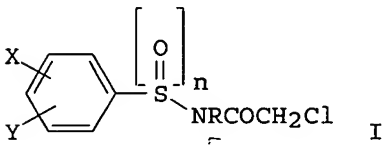
L69  ANSWER 66 OF 131  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         1991:607678  CAPLUS
```

DOCUMENT NUMBER: 115:207678
TITLE: Preparation of N-(phenylsulfenyl)-2-chloroacetamides as herbicides
INVENTOR(S): Hashimoto, Isao; Tsuru, Kazutaka; Ishida, Tatsuyoshi
PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan
SOURCE: Can. Pat. Appl., 21 pp.
CODEN: CPXXEB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2030001	AA	19910517	CA 1990-2030001	19901114
JP 03157360	A2	19910705	JP 1989-296213	19891116
EP 432471	A1	19910619	EP 1990-121613	19901112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
HU 55599	A2	19910628	HU 1990-7153	19901115
PRIORITY APPLN. INFO.:			JP 1989-296213 A	19891116

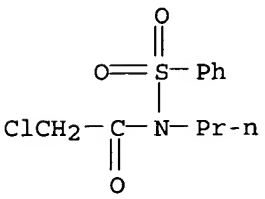
OTHER SOURCE(S): MARPAT 115:207678
GI



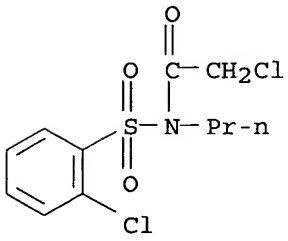
I

AB N-Phenylsulfenyl-2-chloroacetamides and analogs I [n = 0-2; R = H, lower (halo)alkyl, cycloalkylmethyl, (substituted) benzyl, lower alkoxyalkyl, tetrahydrofurfuryl, alkoxycarbonylmethyl, dialkylaminoethyl; X, Y = H, halo, lower alkyl, lower alkoxy, CF3, NO2; R ≠ H when one of X, Y = p-NO2 and the other is H] were prepared as herbicides. Thus, 3,4-dichlorophenylsulfenyl chloride in CH2Cl2 was added at 21° to a solution of ClCH2CONH2, pyridine and CH2Cl2. The temperature rose to 33° during addition and the mixture was stirred 4 h at 33-35° to give title compound I (n = 0, R = H, X = 3-Cl, Y = 4-Cl) in 60% yield. In a herbicidal test against barnyard grass, 22 title compds. showed 100% control.

IT **136941-39-4P 136941-40-7P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)
RN 136941-39-4 CAPLUS
CN Acetamide, 2-chloro-N-(phenylsulfonyl)-N-propyl- (9CI) (CA INDEX NAME)



RN 136941-40-7 CAPLUS
CN Acetamide, 2-chloro-N-[(2-chlorophenyl)sulfonyl]-N-propyl- (9CI) (CA INDEX NAME)

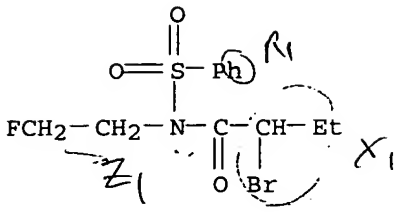


L69 ANSWER 67 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:553116 CAPLUS
DOCUMENT NUMBER: 115:153116
TITLE: Preparation of fluoroethylsulfonamides as insecticides and acaricides.
INVENTOR(S): Mori, Kaoru; Komata, Takeo; Tamai, Ryoichi; Murakami, Kazuko; Tada, Osamu; Koyasu, Hideo; Matsubuchi, Sadayuki; Fujisawa, Toyoichi
PATENT ASSIGNEE(S): Central Glass Co., Ltd., Japan; Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

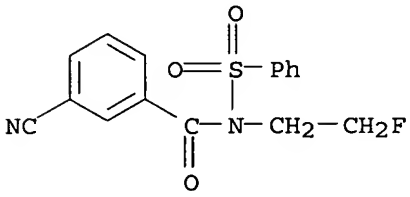
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03068550	A2	19910325	JP 1989-206276	19890809
PRIORITY APPLN. INFO.:			JP 1989-206276	19890809

OTHER SOURCE(S): MARPAT 115:153116
AB R1SO2NR2CH2CH2F [I; R1 = C1-4 alkyl, haloalkyl, thienyl, C6H4Xm; R2 = C1-4 alkyl, alkynyl, haloalkyl, cycloalkyl, OCH2Ph, SO2Ph, COR3; R3 = C1-6 alkyl, alkynyl, haloalkyl, (haloalkyl)cycloalkyl, (halo)benzyl, C1-6 alkoxy, alkenyloxy, OPh, NHPh, (halo)pyridyl, naphthyl, furyl, C6H4Yn; X = H, halo, C1-4 alkyl, haloalkyl, alkoxy, nitro, cyano; Y = X, amino; m, n = 1-2] are prepared as insecticides or acaricides. N-(2-Fluoroethyl)-3-toluenesulfonamide (preparation given) in THF was treated with NaH at room temperature for 1 h, mixed with BzCl, and stirred at room temperature overnight to give 76.4% I (R1 = 3-MeC6H4, R2 = Bz), which was applied to cucumber at 4 ppm to control Aphis gossypii with 100% mortality.
IT **136160-59-3P 136161-05-2P 136161-06-3P 136161-17-6P 136161-20-1P 136161-21-2P 136161-22-3P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as insecticide and acaricide)
RN 136160-59-3 CAPLUS
CN Butanamide, 2-bromo-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX

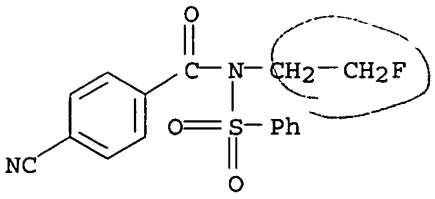
NAME)



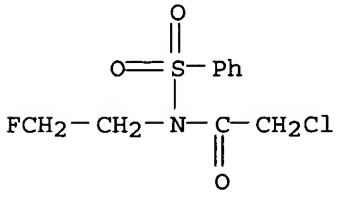
RN 136161-05-2 CAPLUS
CN Benzamide, 3-cyano-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



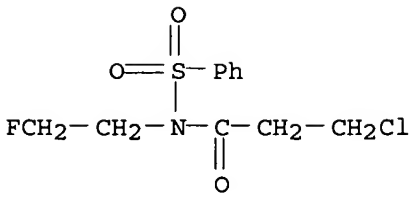
RN 136161-06-3 CAPLUS
CN Benzamide, 4-cyano-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



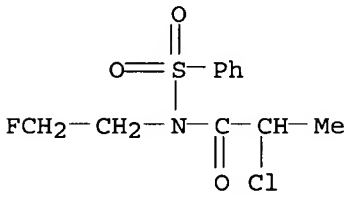
RN 136161-17-6 CAPLUS
CN Acetamide, 2-chloro-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



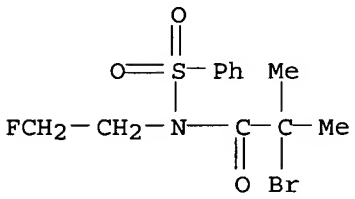
RN 136161-20-1 CAPLUS
CN Propanamide, 3-chloro-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 136161-21-2 CAPLUS
CN Propanamide, 2-chloro-N-(2-fluoroethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

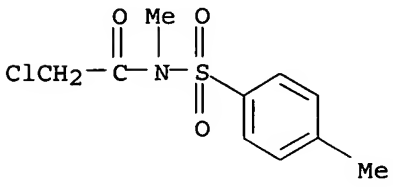


RN 136161-22-3 CAPLUS
CN Propanamide, 2-bromo-N-(2-fluoroethyl)-2-methyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

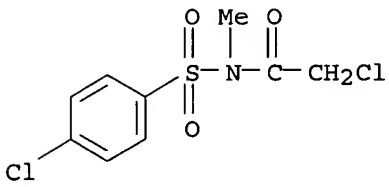


L69 ANSWER 68 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:491759 CAPLUS
DOCUMENT NUMBER: 115:91759
TITLE: New methods for the synthesis of N-acylsulfonamides
AUTHOR(S): Lukanov, L. K.; Venkov, A. P.
CORPORATE SOURCE: Bulg.
SOURCE: Nauchni Trudove - Plovdivski Universitet Paisii Khilendarski (1989), Volume Date 1988, 26(5, Khim.), 23-35
CODEN: NTPUB6; ISSN: 0369-6227
DOCUMENT TYPE: Journal
LANGUAGE: Bulgarian
OTHER SOURCE(S): CASREACT 115:91759
AB Acylating RSO2NHR1 [I; R = Ph, 4-tolyl, PhCH2, 4-ClC6H4; R1 = CH2CH2C6H3(OMe)2-3,4, CH2Ph, CH2C6H4Cl-4, CH2CH2Ph, Me, H] with R2CO2H [R2 = Me, Ph, ClCH2, 3,4-(MeO)2C6H3CH2] in refluxing CH2Cl2 containing PCl3 or SOCl2 gave 16 RSO2NR1COR2 (II) in 50-88% yield. I (R = same aryl; R1 = Ph, C6H4Cl-4, C6H4OMe-4, 2,6-xylyl, C6H3EtMe-2,6, C6H3Et2-2,6) were acetylated with refluxing 20:1 Ac2O-HCO2H to give 10 corresponding II in 71-97% yield.
IT **38994-94-4P 135489-94-0P**

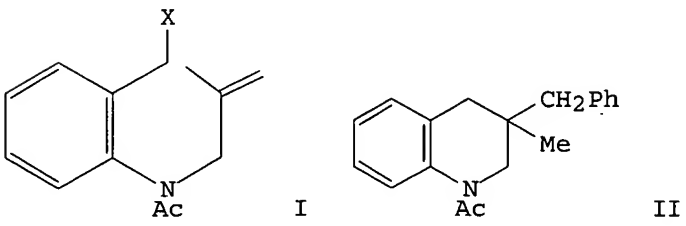
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 38994-94-4 CAPLUS
CN Acetamide, 2-chloro-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 135489-94-0 CAPLUS
CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-methyl- (9CI) (CA INDEX NAME)



L69 ANSWER 69 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:491333 CAPLUS
DOCUMENT NUMBER: 115:91333
TITLE: Palladium catalyzed tandem cyclization-anion capture processes initiated by alkyl- and π-allyl-palladium species
AUTHOR(S): Grigg, Ronald; Sukirthalingam, Sukanthini; Sridharan, Visuvanathar
CORPORATE SOURCE: Sch. Chem., Leeds Univ., Leeds, LS2 9JT, UK
SOURCE: Tetrahedron Letters (1991), 32(22), 2545-8
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:91333
GI

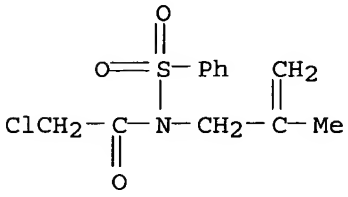


I II

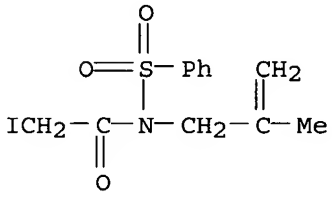
AB Palladium-catalyzed tandem cyclization-anion capture processes initiated by oxidative addition of benzylic or allylic halides or acetates to Pd occur regio- and stereospecifically in good yield. Examples of anion capture involving formate (H-) and organotin, -zinc, and -boron species are described. Thus, treatment of benzylic halides I (X = Cl and Br) with NaBPh4 in the presence of Pd acetate afforded 69% cyclization product II.

IT **134836-70-7 134836-80-9 134855-36-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(attempted cyclization-anion capture reaction of)

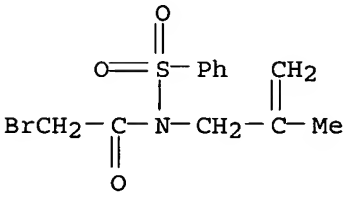
RN 134836-70-7 CAPLUS
CN Acetamide, 2-chloro-N-(2-methyl-2-propenyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



RN 134836-80-9 CAPLUS
CN Acetamide, 2-iodo-N-(2-methyl-2-propenyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

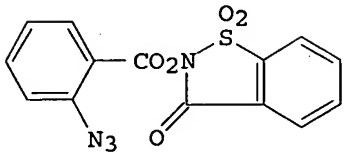


RN 134855-36-0 CAPLUS
CN Acetamide, 2-bromo-N-(2-methyl-2-propenyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

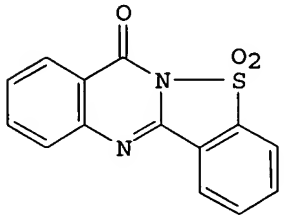


L69 ANSWER 70 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:122256 CAPLUS
DOCUMENT NUMBER: 114:122256
TITLE: Heterocycles by intramolecular aza-Wittig reactions of iminophosphoranes obtained from 2-azidobenzoyl- and 2-azidobenzylidene derivatives

AUTHOR(S): Luheshi, Abdul Bassett N.; Salem, Salem M.; Smalley, Robert K.; Kennewell, Peter D.; Westwood, Robert
CORPORATE SOURCE: Dep. Chem. Appl. Chem., Univ. Salford, Salford, M5 4WT, UK
SOURCE: Tetrahedron Letters (1990), 31(45), 6561-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:122256
GI



I

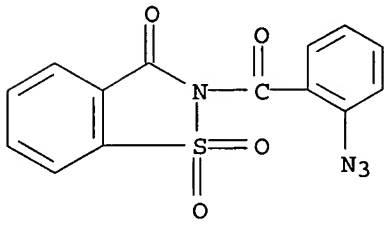


II

AB The use of iminophosphoranes in intramol. aza-Wittig reactions to prepare pyrrolo[1,2-a]benzimidazoles, fused quinazolinones, quinolines, and an isoindolo[1,3,4]benzotriazepinone is reported. Thus, (azidobenzoyl)oxobenzoisothiazoline dioxide I was treated with (EtO)3P to give 88% oxobenzoisothiazoloquinazoline dioxide II.

IT **132416-64-9P**
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(generation of iminophosphorane and intramol. aza-Wittig reaction of)

RN 132416-64-9 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-azidobenzoyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L69 ANSWER 71 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:108609 CAPLUS
DOCUMENT NUMBER: 112:108609
TITLE: Electrophotography-type lithographic master plates
INVENTOR(S): Kato, Eiichi; Ishii, Kazuo
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01114861	A2	19890508	JP 1987-270309	19871028
PRIORITY APPLN. INFO.:			JP 1987-270309	19871028

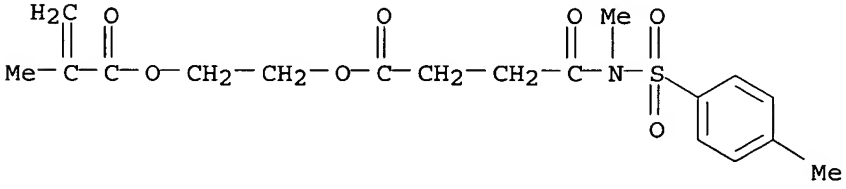
AB In the lithog. master plates using electrophotog. photoreceptors comprising a conductive support and ≥1 layers containing ZnO and a binder resin, the binder resin has substituent groups of the formulas CONRSO2R1 and/or CONR2OSO2R3 (R, R2 = H, aliphatic; R1, R3 = aliphatic, aryl). The lithog. master plates show improved electrostatic properties and stain-free background. Thus, a support was coated with a composition containing Bu methacrylate-CH2:CMeCONHSO2C6H13 copolymer, acrylic acid-Et methacrylate copolymer, ZnO, rose bengal, and phthalic anhydride to give a photoreceptor. Resulting master plates for offset printing gave 104 good prints.

IT **125566-77-0 125566-79-2**
RL: USES (Uses)
(binder, electrophotog.-type lithog. master plate photoconductive layer containing, for good electrostatic properties and stain-free background)

RN 125566-77-0 CAPLUS
CN Butanoic acid, 4-[methyl[(4-methylphenyl)sulfonyl]amino]-4-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

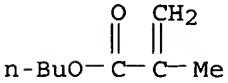
CM 1

CRN 125566-76-9
CMF C18 H23 N O7 S



CM 2

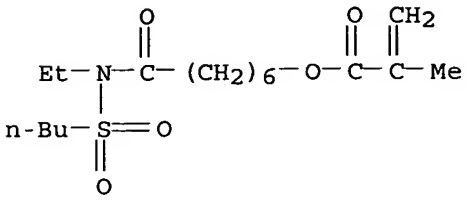
CRN 97-88-1
CMF C8 H14 O2



RN 125566-79-2 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 7-[(butylsulfonyl)ethylamino]-7-oxoheptyl ester, polymer with phenylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

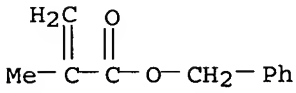
CM 1

CRN 125566-78-1
CMF C17 H31 N O5 S

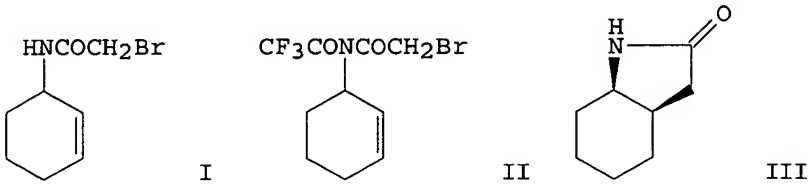


CM 2

CRN 2495-37-6
CMF C11 H12 O2

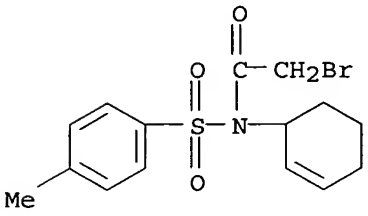


L69 ANSWER 72 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1990:55537 CAPLUS
DOCUMENT NUMBER: 112:55537
TITLE: Radical cyclization of allylic haloacetamides. A route to cis-fused 2-pyrrolidones and piperidones
AUTHOR(S): Stork, Gilbert; Mah, Robert
CORPORATE SOURCE: Dep. Chem., Columbia Univ., New York, NY, 10027, USA
SOURCE: Heterocycles (1989), 28(2), 723-7
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:55537
GI



AB N-Protected allylic haloacetamides undergo radical cyclization to produce N-protected lactams. Thus, cyclohexenyl bromoacetamide I was treated with (F3CCO)2O in the presence of poly(4-vinylpyridine) to give 95% bromo imide II, which was cyclized by treatment with Bu3SnH-AIBN in C6H6 and deprotected with aqueous KF to give the fused pyrrolidone III in 80-90% yield from I. A small quantity of debrominated I was also obtained.

IT **124706-15-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and radical cyclization of)
RN 124706-15-6 CAPLUS
CN Acetamide, 2-bromo-N-2-cyclohexen-1-yl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



L69 ANSWER 73 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:622010 CAPLUS
DOCUMENT NUMBER: 111:222010
TITLE: Antistatic photographic recording materials
INVENTOR(S): Hesse, Konrad; Oezelsel, Mehmet Oezbay
PATENT ASSIGNEE(S): Du Pont de Nemours (Deutschland) G.m.b.H., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

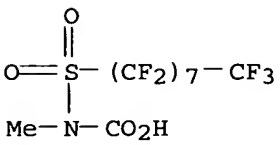
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 319951	A1	19890614	EP 1988-120443	19881207
R: BE, CH, DE, ES, FR, GB, IT, LI, SE				
PRIORITY APPLN. INFO.:			DE 1987-3741355 A	19871207

AB Triboelec. charge formation in photog. materials for use in mech. transport apparatus is decreased by using a combination of a F-containing anionic surfactant, a nonionic surfactant with oxyalkyl units, and a nonionic surfactant with oxyalkyl units and F groups in the coatings of the materials. Thus, a double-sided radiog. film with C8F17SO3-H.N+Et4 and C10H21SO2NHCH2CO2K in the gelatin-Ag(Br,I) emulsion layer and C8F17(CH2CH2O)6H in the protective layer was tested in a transport apparatus with hard rubber and eloxated Al rollers to show a low triboelec. charging.

IT **123748-42-5**
RL: USES (Uses)
(surfactant, photog. materials containing, for improved antistatic properties)
RN 123748-42-5 CAPLUS
CN Carbamic acid, [(heptadecafluorooctyl)sulfonyl]methyl-, polymer with 1,4-butanediol, α-hydro-ω-hydroxypoly(oxy-1,2-ethanediyl) and α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

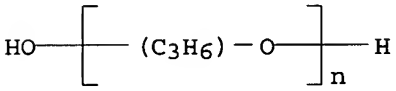
CM 1

CRN 123748-41-4
CMF C10 H4 F17 N O4 S



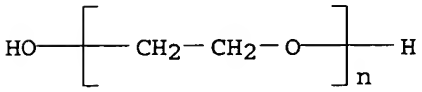
CM 2

CRN 25322-69-4
CMF (C3 H6 O)n H2 O
CCI IDS, PMS



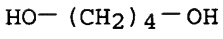
CM 3

CRN 25322-68-3
CMF (C2 H4 O)n H2 O
CCI PMS



CM 4

CRN 110-63-4
CMF C4 H10 O2



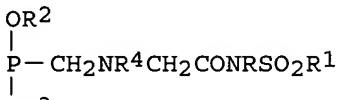
L69 ANSWER 74 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:115117 CAPLUS
DOCUMENT NUMBER: 110:115117
TITLE: Preparation of dialkyl aminomethanephosphonate derivatives as herbicide intermediates
INVENTOR(S): Corbet, Jean Pierre; Mulhauser, Michel
PATENT ASSIGNEE(S): Rhone-Poulenc Agrochimie, Fr.
SOURCE: Fr. Demande, 11 pp.
CODEN: FRXXBL

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2608609	A1	19880624	FR 1986-18308	19861218
FR 2608609	B1	19890602		
IL 84482	A1	19921115	IL 1987-84482	19871116
AU 8782618	A1	19880623	AU 1987-82618	19871216
AU 599729	B2	19900726		
CA 1297493	A1	19920317	CA 1987-554483	19871216
DK 8706650	A	19880619	DK 1987-6650	19871217
CN 87105951	A	19880629	CN 1987-105951	19871217
JP 63165391	A2	19880708	JP 1987-320034	19871217
BR 8706887	A	19880726	BR 1987-6887	19871217
EP 275804	A1	19880727	EP 1987-420345	19871217
EP 275804	B1	19911002		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 8709478	A	19880727	ZA 1987-9478	19871217
DD 264921	A5	19890215	DD 1987-310642	19871217
HU 48634	A2	19890628	HU 1987-5755	19871217
HU 202881	B	19910429		
AT 67998	E	19911015	AT 1987-420345	19871217

PRIORITY APPLN. INFO.: FR 1986-18308 A 19861218
EP 1987-420345 A 19871217

OTHER SOURCE(S): MARPAT 110:115117
GI

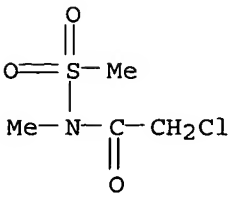


I

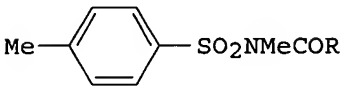
AB The title compds. I [R1 = hydrocarbyl, especially (substituted) alkyl, aryl, cycloalkyl; R = H, R1, C1-4 alkyl; R2, R3 = (substituted) alkyl, aryl, aralkyl, or R2R3 = divalent entity; R4 = ArR5R6C; Ar = (substituted) aromatic group; R5, R6 = H, alkyl, etc.], useful as intermediates for herbicides, were prepared A mixture of diisopropyl N-benzylaminomethanephosphonate and N-methyl-N-methylsulfonylchloroacetamide was heated at 80° to give 92.4% I (R2 = R3 = CHMe2, R4 = PhCH2, R = R1 = Me).

IT **38994-88-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of herbicide intermediate)

RN 38994-88-6 CAPLUS
CN Acetamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



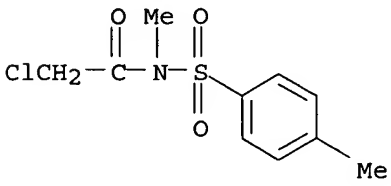
L69 ANSWER 75 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:63579 CAPLUS
DOCUMENT NUMBER: 110:63579
TITLE: Prodrug forms for the sulfonamide group. II. Water-soluble amino acid derivatives of N-methylsulfonamides as possible prodrugs
AUTHOR(S): Larsen, Jorn Drustrup; Bundgaard, Hans; Lee, Vincent H. L.
CORPORATE SOURCE: Dep. Pharm. Chem., R. Dan. Sch. Pharm., Copenhagen, Den.
SOURCE: International Journal of Pharmaceutics (1988), 47(1-3), 103-10
CODEN: IJPHDE; ISSN: 0378-5173
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

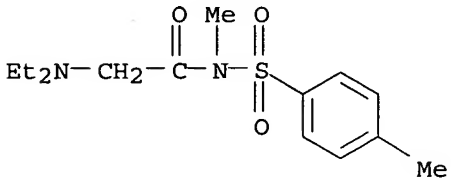
AB Various N-acyl derivs. (I, R = Me, Ph, CH2NEt2, or morpholinomethyl) of the model sulfonamide N-methyl-p-toluenesulfonamide were synthesized and evaluated as potential prodrug forms for the sulfonamide group occurring in e.g. carbonic anhydrase inhibitors. The kinetics of hydrolysis of the derivs. were determined at 37° in the pH range 0-12 and in the presence of human plasma. Maximum stability was achieved at pH .apprx.4. The N-acyl compds. were readily hydrolyzed enzymically to yield the parent sulfonamide in quant. amts. The derivs. with an ionizable amino function in the acyl moiety possess a high water-solubility as well as adequate lipophilicity at physiol. pH. Since various N-methylsulfonamides are known to undergo demethylation in vivo, a promising prodrug approach for a primary sulfonamide may be N-acylation of the corresponding N-methylsulfonamide.

IT **38994-94-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and amine substitution of)
RN 38994-94-4 CAPLUS
CN Acetamide, 2-chloro-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)

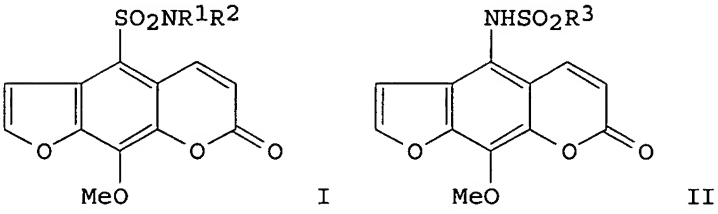


IT **118625-26-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)

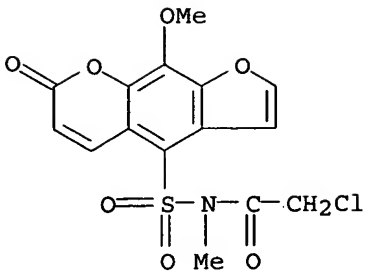
(preparation and hydrolysis and lipophilicity of, as prodrug)
RN 118625-26-6 CAPLUS
CN Acetamide, 2-(diethylamino)-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



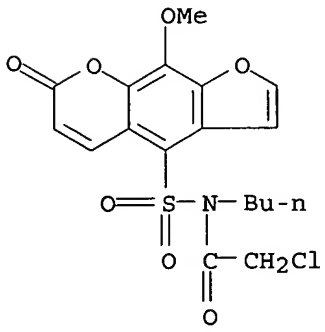
L69 ANSWER 76 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:57390 CAPLUS
DOCUMENT NUMBER: 110:57390
TITLE: Synthesis and biological activity of some new xanthotoxin derivatives
AUTHOR(S): El-Sharief, A. M. Sh.; Bedair, A. H.; El-Maghraby, A. A.; Ammar, Y. A.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt
SOURCE: Journal of the Indian Chemical Society (1988), 65(6), 422-6
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:57390
GI



AB A xanthotoxinsulfonyl chloride was treated with amines to give sulfonamides I (R1 = H, acyl, alkyl; R2 = C6H4SO2NH2, substituted sulfamoylphenyl, C6H4CO2H, carbalkoxyphenyl, substituted carbamoylphenyl, C6H4OH, alkoxyphenyl, acyloxyphenyl, H, alkyl, acyl, substituted anilinophenyl, heteroaryl). Also prepared were aminoxanthotoxin derivs. II [R3 = C6H4CO2H, C6H3(CO2H)OH, C6H4NHAc]. Some I and II showed bactericidal activity.
IT **92831-61-3P 92831-63-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 92831-61-3 CAPLUS
CN Acetamide, 2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]-N-methyl- (9CI) (CA INDEX NAME)



RN 92831-63-5 CAPLUS
CN Acetamide, N-butyl-2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]- (9CI) (CA INDEX NAME)

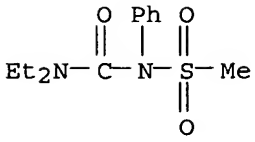


L69 ANSWER 77 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:488080 CAPLUS
DOCUMENT NUMBER: 109:88080
TITLE: The herbicidal activity of 1-substituted 1-phenylureas
AUTHOR(S): Barnes, Keith F.; Browning, Ian R.; Clark, Nigel G.
CORPORATE SOURCE: Wye Coll., Univ. London, Ashford/Kent, TN25 5AH, UK
SOURCE: Pesticide Science (1988), 23(1), 83-91
CODEN: PSSCBG; ISSN: 0031-613X
DOCUMENT TYPE: Journal
LANGUAGE: English

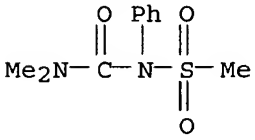
AB A selection of 1,1-dialkyl-3-phenylureas, addnl. substituted in the 3-position by methanesulfonyl, cyano, alkoxycarbonyl or Me, were synthesized and assessed for pre- and post-emergence herbicidal activity against a variety of monocotyledonous and dicotyledonous weed species. The range of activities is compared with those of the structurally-related com. herbicides, fenuron, monuron and diuron, into which the novel compds. could be metabolized (lethal synthesis).

IT **115956-28-0P 115973-65-4P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)

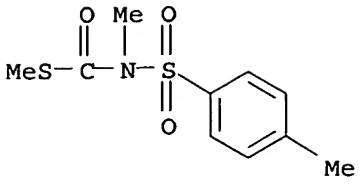
RN 115956-28-0 CAPLUS
CN Methanesulfonamide, N-[(diethylamino)carbonyl]-N-phenyl- (9CI) (CA INDEX NAME)



RN 115973-65-4 CAPLUS
CN Methanesulfonamide, N-[(dimethylamino)carbonyl]-N-phenyl- (9CI) (CA INDEX NAME)



L69 ANSWER 78 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:119415 CAPLUS
DOCUMENT NUMBER: 106:119415
TITLE: Alkyl shifts in 1,4-dipoles from tosyl iso(thio)cyanate and imido(thio)carbonates or isoureas
AUTHOR(S): Schaumann, Ernst; Dietz, Joerg; Kausch, Erwin; Schmerse, Gerd C.
CORPORATE SOURCE: Inst. Org. Chem., Univ. Hamburg, Hamburg, D-2000/13, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1987), 120(3), 339-44
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:119415
AB Alkyl shifts from O to N are observed in dipoles from tosyl isocyanate (TosNCO) and imido(thio)carbonates RN:C(OR1)XR2 (I; X = O, R = Me, Ph, cyclohexyl, R1, R2 = Me, Et, Ph; X = S, R = Me, R1, R2 = Me, Et) to give (thio)allophanates TosNR1CONRC(O)XR2. Similarly, addition of TosNCS to MeN:C(OMe)NMe2 afforded TosN:C(SMe)NMeCONMe2, the product of an O → S shift. A crossover experiment involving TosNCO and I (R = Me, R1 = Me, R2 = Et; R1 = Et; R2 = Me) gave four products TosNR1CONMeC(O)SR2, proving the intermol. nature of the rearrangement. However, reactions of TosNCO and isoureas or TosNCS and I stopped short at the dipole stage.
IT **106115-22-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 106115-22-4 CAPLUS
CN Carbamothioic acid, methyl[(4-methylphenyl)sulfonyl]-, S-methyl ester (9CI) (CA INDEX NAME)

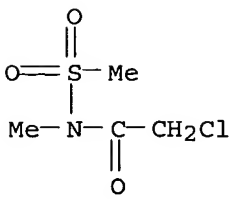


L69 ANSWER 79 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:84842 CAPLUS
DOCUMENT NUMBER: 106:84842
TITLE: N-sulfonyl-N-(phosphonomethylglycyl)amines
INVENTOR(S): Veracini, Serge; Bres, Herve
PATENT ASSIGNEE(S): Rhone Poulenc Agrochimie, Fr.
SOURCE: Fr. Demande, 7 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
FR 2575161	A1	19860627	FR 1984-20151		19841226
FR 2575161	B1	19890331			
FI 8505066	A	19860627	FI 1985-5066		19851218
AU 8551519	A1	19860703	AU 1985-51519		19851220
AU 573410	B2	19880609			
ZA 8509769	A	19860924	ZA 1985-9769		19851220
CA 1244461	A1	19881108	CA 1985-498283		19851220
DK 8506035	A	19860627	DK 1985-6035		19851223
NO 8505244	A	19860627	NO 1985-5244		19851223
HU 39751	A2	19861029	HU 1985-4956		19851223
HU 199855	B	19900328			
DD 251135	A5	19871104	DD 1985-285097		19851223
JP 61158991	A2	19860718	JP 1985-291796		19851224
EP 189725	A1	19860806	EP 1985-420242		19851224
EP 189725	B1	19890308			
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE					
BR 8506478	A	19860902	BR 1985-6478		19851224
AT 41153	E	19890315	AT 1985-420242		19851224
IL 77445	A1	19890910	IL 1985-77445		19851224
CN 85109729	A	19860709	CN 1985-109729		19851225
ES 550424	A1	19870601	ES 1985-550424		19851226
PRIORITY APPLN. INFO.:			FR 1984-20151	A	19841226
			EP 1985-420242	A	19851224

OTHER SOURCE(S): CASREACT 106:84842
AB (R2O)(R3O)P(O)CH2NR4CH2CONR5(SO2R1) [I; R1 = (substituted)hydrocarbyl; R2, R3 = (substituted) alkyl, aryl or aralkyl; R4 = (substituted) aralkyl; R5 = H, hydrocarbyl], useful as herbicides (no data), are prepared Thus, 7.78 mmol (EtO)2P(O)CH2NHCH2Ph in MeCN was treated with 7.78 mmol ClCH2CONMe(SO2Me) at 80° in the presence of K2CO3 to give 60% I (R1 = R5 = Me, R2 = R3 = Et, R4 = CH2Ph).
IT **38994-88-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with phosphonomethylbenzylamine)
RN 38994-88-6 CAPLUS

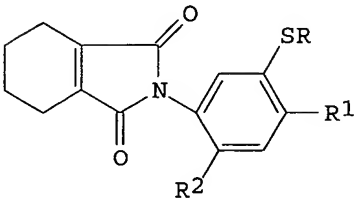
CN Acetamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



L69 ANSWER 80 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:442641 CAPLUS
DOCUMENT NUMBER: 105:42641
TITLE: Herbicidal tetrahydrophthalimides
INVENTOR(S): Naohara, Tetsuo; Natsume, Fumitsugu; Yotsuya, Toyohiko; Suzuki, Shigeru; Suzuki, Seiichi; Ikeda, Osamu
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61040261	A2	19860226	JP 1984-162014	19840801

PRIORITY APPLN. INFO.: JP 1984-162014 19840801
GI



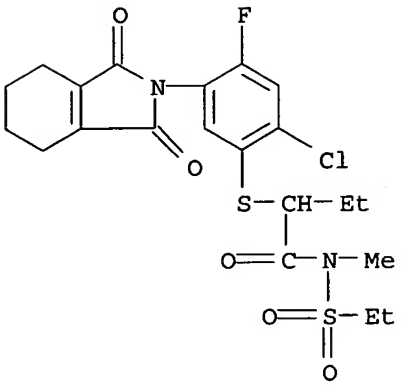
I

AB Title compds. I (R = H, haloalkyl, cyanoalkyl, alkoxyalkyl, alkoxyalkoxyalkyl, alkoxyalkoxyalkoxyalkyl, etc.; R1 = halo; R2 = H, halo) were prepared Thus, refluxing 5.23 g 4-chloro-2-fluoro-5-[1-(dimethylcarbamoyl)propylthio]aniline with 3.01 g 3,4,5,6-tetrahydrophthalic anhydride in HOAc for 3 h gave 6.59 g I (R = Me2NCOCHEt, R1 = Cl, R2 = F). The latter compound showed herbicidal activity at 2.5 g/are.

IT **103087-68-9P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)

RN 103087-68-9 CAPLUS
CN Butanamide, 2-[[2-chloro-4-fluoro-5-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-

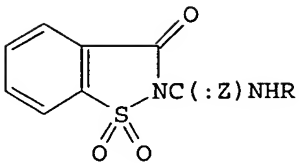
isoindol-2-yl)phenyl]thio]-N-(ethylsulfonyl)-N-methyl- (9CI) (CA INDEX NAME)



L69 ANSWER 81 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:424260 CAPLUS
DOCUMENT NUMBER: 105:24260
TITLE: Acylated saccharin derivatives.
INVENTOR(S): Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuehle, Engelbert; Fuehrer, Wolfgang; Haenssler, Gerd; Brandes, Wilhelm; Reinecke, Paul Dr
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 35 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3433391	A1	19860320	DE 1984-3433391	19840912
EP 177740	A1	19860416	EP 1985-110995	19850831
EP 177740	B1	19880928		
R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE				
AT 37543	E	19881015	AT 1985-110995	19850831
US 4713389	A	19871215	US 1985-774271	19850910
DK 8504133	A	19860313	DK 1985-4133	19850911
ES 546877	A1	19860316	ES 1985-546877	19850911
AU 8547384	A1	19860320	AU 1985-47384	19850911
AU 571734	B2	19880421		
JP 61068477	A2	19860408	JP 1985-199614	19850911
ZA 8506951	A	19860430	ZA 1985-6951	19850911
BR 8504387	A	19860708	BR 1985-4387	19850911
DD 239516	A5	19861001	DD 1985-280522	19850911
HU 39966	A2	19861128	HU 1985-3430	19850911

PRIORITY APPLN. INFO.: DE 1984-3433391 A 19840912
EP 1985-110995 A 19850831
OTHER SOURCE(S): CASREACT 105:24260
GI



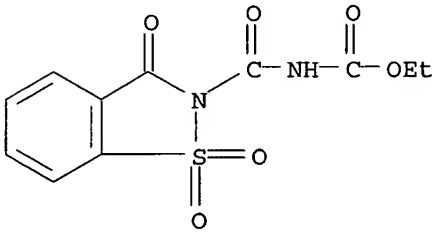
I

AB Title compds. I [R = COR1, SO2OR2; R1 = alkyl, haloalkyl, alkoxy, (un)substituted aryl, etc.; R2 = alkyl, phenyl; Z = O, S] are prepared as bactericides and fungicides. Thus, ethoxycarbonyl isocyanate reacted with saccharin in Me2CO, in the presence of Et3N, to give I (R = EtO2C, Z = O) (II). II gave better protection of rice against Pyricularia oryzae than did the standard 3-allyloxy-1,2-benzisothiazole 1,1-dioxide.

IT **102823-02-9P 102823-03-0P 102823-05-2P**
102823-06-3P 102823-07-4P 102823-08-5P
102823-09-6P 102823-11-0P 102823-12-1P
102823-13-2P 102823-14-3P 102823-15-4P
102823-17-6P 102823-20-1P 102823-21-2P
102823-24-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as bactericide and fungicide)

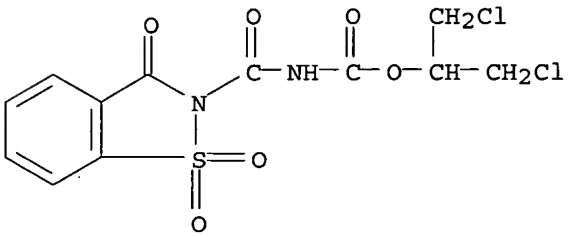
RN 102823-02-9 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



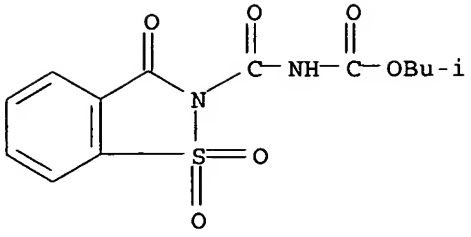
RN 102823-03-0 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chloro-1-(chloromethyl)ethyl ester (9CI) (CA INDEX NAME)

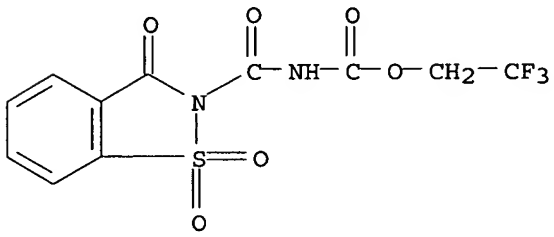


RN 102823-05-2 CAPLUS

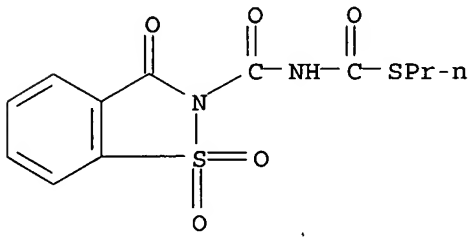
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



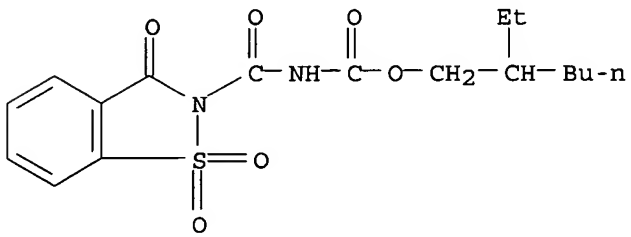
RN 102823-06-3 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)



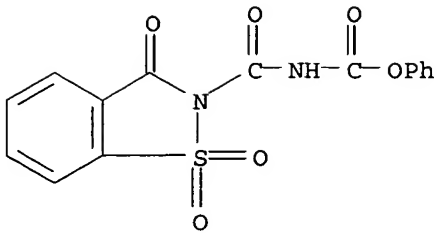
RN 102823-07-4 CAPLUS
CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-propyl ester (9CI) (CA INDEX NAME)



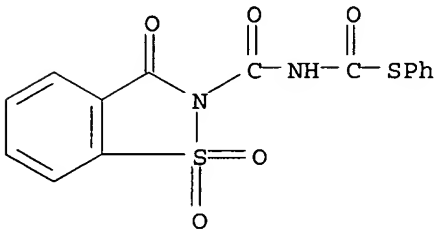
RN 102823-08-5 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-ethylhexyl ester (9CI) (CA INDEX NAME)



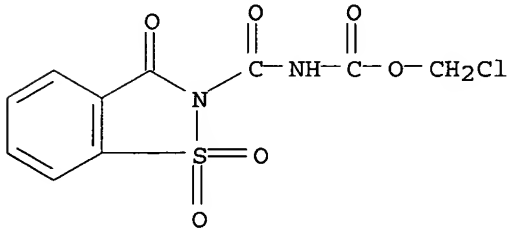
RN 102823-09-6 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



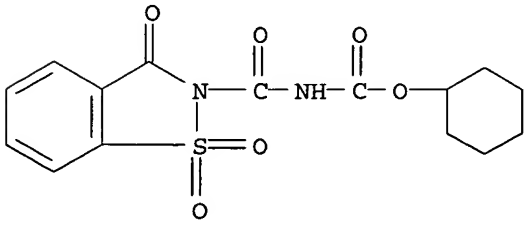
RN 102823-11-0 CAPLUS
CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-phenyl ester (9CI) (CA INDEX NAME)



RN 102823-12-1 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, chloromethyl ester (9CI) (CA INDEX NAME)

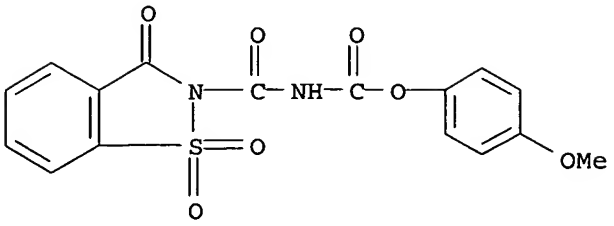


RN 102823-13-2 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, cyclohexyl ester (9CI) (CA INDEX NAME)

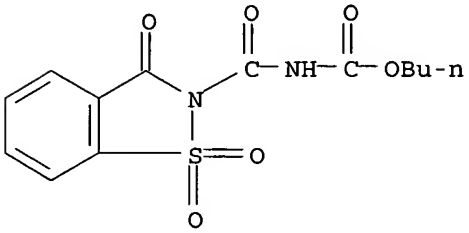


RN 102823-14-3 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-,

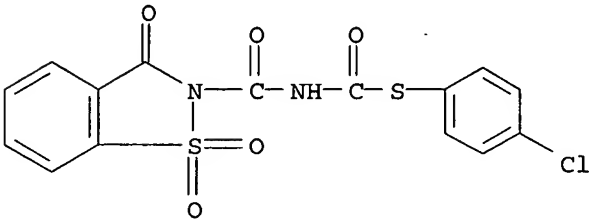
4-methoxyphenyl ester (9CI) (CA INDEX NAME)



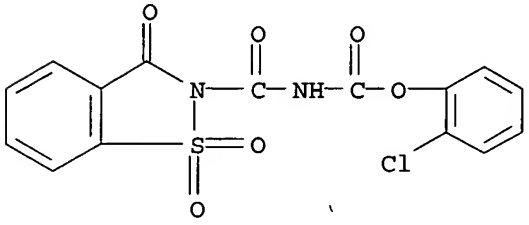
RN 102823-15-4 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, butyl ester (9CI) (CA INDEX NAME)



RN 102823-17-6 CAPLUS
CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-(4-chlorophenyl) ester (9CI) (CA INDEX NAME)

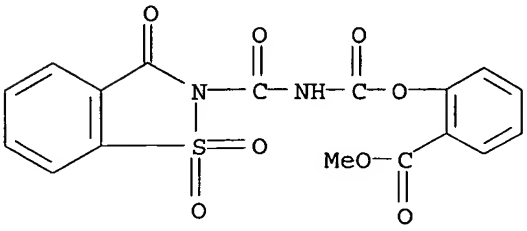


RN 102823-20-1 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chlorophenyl ester (9CI) (CA INDEX NAME)

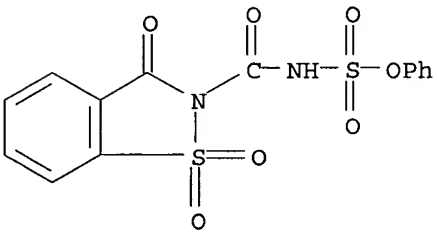


RN 102823-21-2 CAPLUS

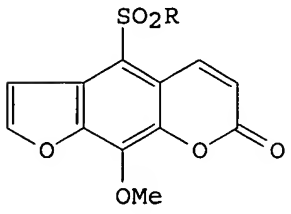
CN Benzoic acid, 2-[[[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)



RN 102823-24-5 CAPLUS
CN Sulfamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 82 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:591462 CAPLUS
DOCUMENT NUMBER: 101:191462
TITLE: Some new xanthotoxin derivatives with expected biological activity
AUTHOR(S): El-Sharief, A. M. S.; Bedair, A. H.; El-Maghraby, A. A.; Ammar, Y. A.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Nasr, Egypt
SOURCE: Egyptian Journal of Chemistry (1983), 26(5), 379-88
CODEN: EGJCA3; ISSN: 0367-0422
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:191462
GI



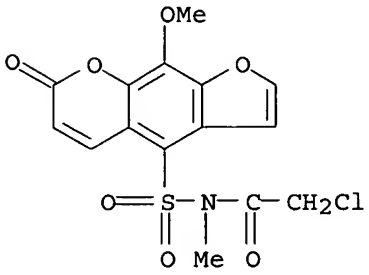
I

AB Xanthotoxin-4-sulfonyl chloride (I, R = Cl) was treated with some sulfa derivs. to give the amides and with 4-H2NC6H4CO2H to give I (R = NHC6H4CO2H-4) which was converted to esters and primary and secondary

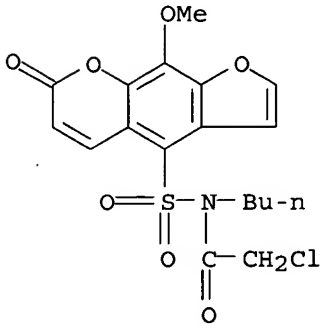
amides. 4-PhNHC6H4NH2 was treated with I (R = Cl) to give I (R = NHC6H4NHPh-4) which was converted to acridine and phenothiazine derivs. The sulfonic acid ester I (R = OC6H4CHO-4) was prepared from I (R = Cl) and 4-HOC6H4CHO and was treated with hippuric acid to give the oxazolin-5-one derivative Another type of xanthotoxinsulfonamides were prepared from 4-aminoxanthotoxin and sulfonyl chlorides. Some of the compds. have bactericidal and fungicidal activity.

IT **92831-61-3P 92831-63-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 92831-61-3 CAPLUS
CN Acetamide, 2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]-N-methyl- (9CI) (CA INDEX NAME)

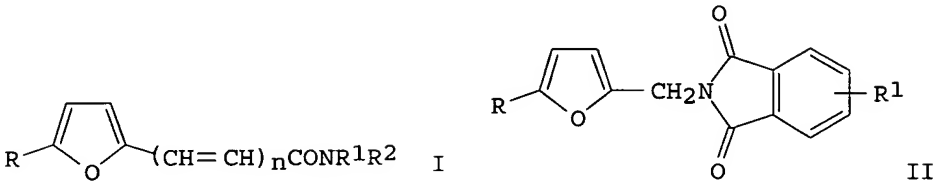


RN 92831-63-5 CAPLUS
CN Acetamide, N-butyl-2-chloro-N-[(9-methoxy-7-oxo-7H-furo[3,2-g][1]benzopyran-4-yl)sulfonyl]- (9CI) (CA INDEX NAME)



L69 ANSWER 83 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:174556 CAPLUS
DOCUMENT NUMBER: 100:174556
TITLE: Synthesis and biological activity of N-substituted amides of furancarboxylic acids and furfurylphthalimide derivatives
AUTHOR(S): Lukevics, E.; Castro, I.; Popelis, J.; Dipans, I.; Rozhkova, N. G.; Andreeva, E. I.; Kukalenko, S. S.
CORPORATE SOURCE: Inst. Org. Sint., Riga, USSR
SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija (1983), (6), 739-44
CODEN: LZAKAM; ISSN: 0002-3248

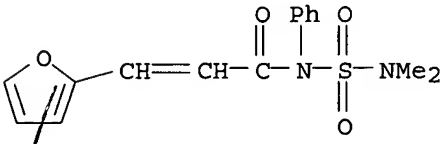
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 100:174556
GI



AB β-2-Furylacrylamides and homologs (I) (n, R, R1, R2 = 0, H, Ph, SO2NMe2; 0, NO2, Ph, SO2NMe2; 1, NO2, Et, Et; 1, NO2, Me2CHCH2, H; 1, NO2, 2-furylmethyl, H; 1, NO2, PhCH2, H; 1, NO2, Ph, H; 1, NO2, Ph, SO2NMe2; 1, H, Ph, SO2NMe2) and N-(2-furylmethyl)phthalimides (II; R, R1 = H, H; NO2, H; H, 4-Cl; H, 4-I; H, 3-Cl) were prepared conventionally and found less effective as bactericides and fungicides than stds.

IT **89811-30-3P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal and fungicidal activity of)

RN 89811-30-3 CAPLUS
CN 2-Propenamide, N-[(dimethylamino)sulfonyl]-3-(2-furanyl)-N-phenyl- (9CI) (CA INDEX NAME)



L69 ANSWER 84 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:51177 CAPLUS
DOCUMENT NUMBER: 100:51177
TITLE: 2,5-Dichlorobenzenesulfonamide derivatives and their biological activities
AUTHOR(S): El-Sharief, A. M. S.; Ammar, M. S.; Ammar, Y. A.; Zaki, M. E. A.
CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1983), 22B(7), 700-4
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 100:51177

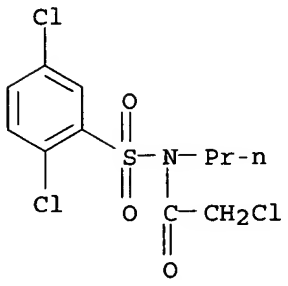
AB 2,5-Cl2C6H3SO2Cl (I) reacts with 4-H2NC6H4CO2H to give the sulfonamide from which esters and amides have been prepared Reaction of I with N2H4 furnishes two hydrazides. Phenols and thiols react with I to give sulfonic esters, one of which reacts with hippuric acid to give the

oxazolone derivative Reaction of I with 4-H2NC6H4NHPh gives 2,5-dichloro-N-[(p-phenylamino)phenyl]benzenesulfonamide which has been converted to acridines and phenothiazine derivs. Most of the compds. show either low or no activity against a number of bacteria and filamentous fungi.

IT **88522-29-6P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and bactericidal activity of)

RN 88522-29-6 CAPLUS

CN Acetamide, 2-chloro-N-[(2,5-dichlorophenyl)sulfonyl]-N-propyl- (9CI) (CA INDEX NAME)



L69 ANSWER 85 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

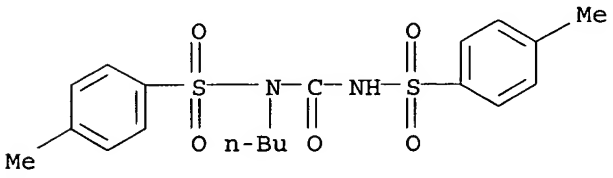
ACCESSION NUMBER: 1983:470727 CAPLUS
DOCUMENT NUMBER: 99:70727
TITLE: Substituted urea derivatives
INVENTOR(S): Soos, Rudolf; Bitter, Istvan; Hidasi, Gyorgy; Zoltan, Sandor; Vidra, Laszlo; Schler, Istvan
PATENT ASSIGNEE(S): Chinoin Gyogyszer es Vegyeszeti Termekek Gyara Rt., Hung.
SOURCE: Hung. Teljes, 14 pp.
CODEN: HUXXBU
DOCUMENT TYPE: Patent
LANGUAGE: Hungarian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 24125	O	19821228	HU 1979-CI1939	19790604
HU 181675	B	19831128		

PRIORITY APPLN. INFO.: HU 1979-CI1939 19790604
OTHER SOURCE(S): CASREACT 99:70727

AB The urea derivs. R1R2NCONHR3 (R1 = H or C1-6 alkyl; R2 = 4-H2N- or 4-MeC6H4SO2; NR1R2 = alkoxycarbonylaminobenzimidazolyl; R3 = alkyl or 4-MeC6H4SO2) are prepared from the corresponding formamide derivs. R3NHCHO by chlorination, followed by reaction with R1R2NH in the presence of an acid-binding compound Thus, 73.7 g SO2Cl2 was treated dropwise with 46.9 g butylformamide. The mixture was added dropwise into a mixture of 64 g 2-(methoxycarbonylamino)benzimidazole and 30 g CaCO3 in 250 mL acetone and 200 mL water, followed by acidification with HCl to give 95 g 1-(butylcarbonyl)-2-(methoxycarbonylamino)benzimidazole. N-(4-Aminobenzenesulfonyl)-N'-butylurea was prepared similarly, using 4-acetamidobenzenesulfonamide, and deacetylation of the reaction product.

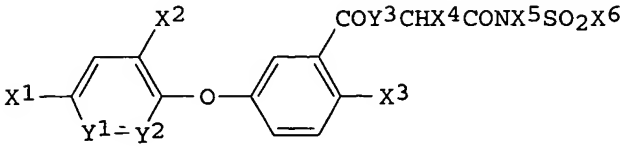
IT **86602-57-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 86602-57-5 CAPLUS
CN Benzenesulfonamide, N-butyl-4-methyl-N-[[[(4-methylphenyl)sulfonyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



L69 ANSWER 86 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:156407 CAPLUS
DOCUMENT NUMBER: 98:156407
TITLE: Herbicide compositions of phenoxybenzoic acid derivatives
INVENTOR(S): Lee, G. H.
PATENT ASSIGNEE(S): Rhone-Poulenc Agrochimie, Fr.
SOURCE: Belg., 29 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 893941	A1	19830126	BE 1982-208677	19820726
FR 2510104	A1	19830128	FR 1982-11334	19820625
NL 8202973	A	19830216	NL 1982-2973	19820723
DK 8203334	A	19830128	DK 1982-3334	19820726
SE 8204456	A	19830128	SE 1982-4456	19820726
AU 8286427	A1	19830203	AU 1982-86427	19820726
DE 3227894	A1	19830217	DE 1982-3227894	19820726
JP 58026861	A2	19830217	JP 1982-130217	19820726
GB 2106102	A1	19830407	GB 1982-21569	19820726
ZA 8205346	A	19830525	ZA 1982-5346	19820726
ES 514353	A1	19830816	ES 1982-514353	19820726
HU 30859	O	19840428	HU 1982-2400	19820726
BR 8204371	A	19830719	BR 1982-4371	19820727
DD 202372	A5	19830914	DD 1982-241981	19820727
PRIORITY APPLN. INFO.:			US 1981-286959 A	19810727
			US 1981-286997 A	19810727

GI



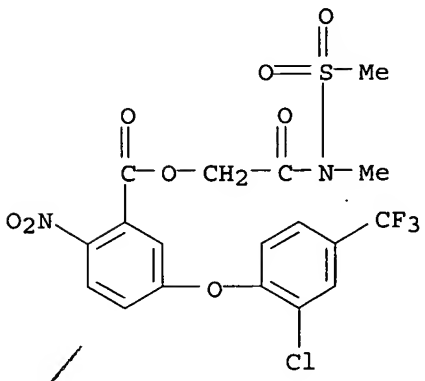
I

AB The phenoxybenzoic acid derivs. I (X1, X2, and X3 = halo, alkyl, haloalkyl, etc.; Y1 = N or CH; Y2 = H or CX7; Y3 = O or S; X4 = H, alkyl, etc.; X5 = H, Na, K, NH4, etc.; X6 = alkyl or substituted alkyl; X7 = H or halogen) are herbicides. Thus, pre-emergence application of 4-methylphenylsulfonylaminocarbonylmethyl 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitrobenzoate Na salt [85260-83-9] (1.12 kg/ha) controlled wild mustard (Sinapis arvensis) and pigweed (Amaranthus retroflexus), with no phytotoxicity to cotton. The synthesis of I is given.

IT **85260-85-1P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)

RN 85260-85-1 CAPLUS

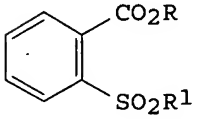
CN Benzoic acid, 5-[2-chloro-4-(trifluoromethyl)phenoxy]-2-nitro-, 2-[methyl(methylsulfonyl)amino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 87 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:53400 CAPLUS
DOCUMENT NUMBER: 98:53400
TITLE: Benzenesulfoamide derivatives
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57140763	A2	19820831	JP 1981-26424	19810225

PRIORITY APPLN. INFO.: JP 1981-26424 19810225
GI

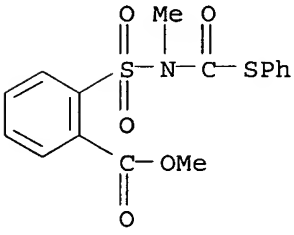


I, R^1=$NR^2C(O)SR^3$
II, R^1=NCO
III, R^1=NHR^2

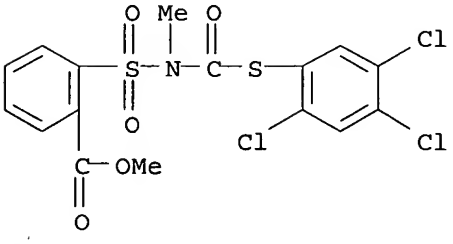
AB Thirty-nine benzenesulfonamides I [R = alkyl, alkenyl; R2 = H, alkyl; R3 = alkyl, alkenyl, cycloalkyl, (substituted) benzyl, (substituted) Ph, furylmethyl, methylpyridyl, methylimidazolyl, methyltriazolyl] were prepared by reaction of II with HSR3 or by reaction of III with ClC(O)SR3. Thus, stirring a mixture of 30 mL benzene, 4.2 g HSC6H2Cl3-2,4,5, and 4.8 g II (R = Me) at room temperature for 3 h followed by standing overnight gave 4.7 g I (R = Me, R2 = H, R3 = 2,4,5-Cl3C6H2). I were effective against Pyricularia oryzae in emulsion, powder, and granular forms.

IT **84334-34-9P 84334-44-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antibacterial activity of)

RN 84334-34-9 CAPLUS
CN Benzoic acid, 2-[[methyl[(phenylthio)carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 84334-44-1 CAPLUS
CN Benzoic acid, 2-[[methyl[[(2,4,5-trichlorophenyl)thio]carbonyl]amino]sulfonyl]-, methyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 88 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:582004 CAPLUS
DOCUMENT NUMBER: 97:182004
TITLE: Arylsulfonylureidocarboxylates and -thiocarboxylates and their salts: herbicidal antidotes
INVENTOR(S): Pallos, Ferenc Marcus; Lin, Kang Chi; Green, Laddie Lee
PATENT ASSIGNEE(S): Stauffer Chemical Co. , USA
SOURCE: Eur. Pat. Appl., 65 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

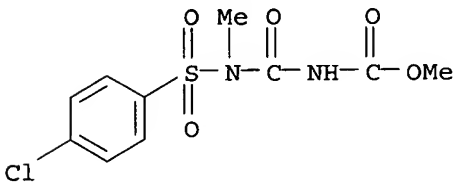
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 52856	A2	19820602	EP 1981-109748	19811117
EP 52856	A3	19820728		
R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
DK 8105062	A	19820520	DK 1981-5062	19811116
FI 8103670	A	19820520	FI 1981-3670	19811118
NO 8103906	A	19820521	NO 1981-3906	19811118
AU 8177597	A1	19820527	AU 1981-77597	19811118
BR 8107511	A	19820810	BR 1981-7511	19811118
DD 202368	A5	19830914	DD 1981-234956	19811118
HU 27549	O	19831028	HU 1981-3451	19811118
JP 57118552	A2	19820723	JP 1981-184531	19811119
ZA 8108019	A	19821229	ZA 1981-8019	19811119
ES 507277	A1	19830316	ES 1981-507277	19811119
PL 129928	B1	19840630	PL 1981-233897	19811119
ES 516548	A1	19831201	ES 1982-516548	19821015
JP 58083668	A2	19830519	JP 1982-181489	19821018
US 4931580	A	19900605	US 1983-564981	19831223
PRIORITY APPLN. INFO.:			US 1980-207991 A	19801119
			US 1981-312251 A	19811019

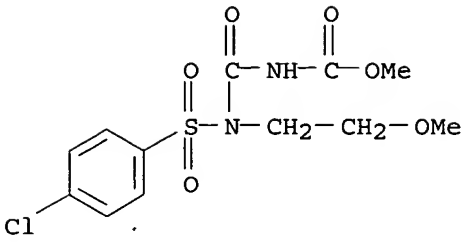
AB RSO2NR1CONR2C(O)XR3 [I; R = (un)substituted Ph, PhCH2, naphthyl, pyridyl, styryl; R1 = H, C1-4 alkyl, C2-6 alkoxyalkyl; R2 = H, C1-4 alkyl, C2-6 alkoxyalkyl, Ph, ClC6H4; X = O, S; R3 = C1-4 alkyl, C3-6 alkenyl or alkynyl, C1-4 haloalkyl, C2-6 alkoxyalkyl, CPh:CHMe, PhCH2, chlorobenzyl, C3-6 haloalkenyl, (un)substituted Ph] were prepared for protecting crops from injury due to thiocarbamate, thiocarbamate sulfoxide, or haloacetanilide herbicides. Thus, reaction of H2NCO2Me and 4-ClC6H4SO2NCO gave 1-(4-chlorobenzenesulfonyl)-3-(methoxycarbonyl)urea. Alternatively, reaction of 4-O2NC6H4SO2NH2 and OCNCO2Me in the presence of pyridine catalysts gave 1-(4-nitrobenzenesulfonyl)-3-(methoxycarbonyl)urea. About 150 examples of I were prepared

IT **83308-97-8P 83309-12-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and activity as herbicidal antidote)

RN 83308-97-8 CAPLUS
CN Carbamic acid, [[[(4-chlorophenyl)sulfonyl]methylamino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



RN 83309-12-0 CAPLUS
CN Carbamic acid, [[[(4-chlorophenyl)sulfonyl](2-methoxyethyl)amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 89 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:144016 CAPLUS
DOCUMENT NUMBER: 96:144016
TITLE: Siloxane emulsions with improved cold stability
INVENTOR(S): Steinbach, Hans Horst; Schnurrbusch, Karl; Rieder, Matthias; Weiden, Otto
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 43985	A2	19820120	EP 1981-105091	19810701
EP 43985	A3	19820127		
EP 43985	B1	19841003		
R: BE, DE, FR, GB, IT, NL				
DE 3026501	A1	19820204	DE 1980-3026501	19800712
PRIORITY APPLN. INFO.:			DE 1980-3026501 A	19800712

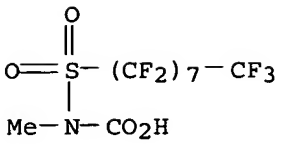
AB Alcs. such as EtOH [64-17-5], glycerol [56-81-5], and HOCH2CH2OH [107-21-1] improved the freeze-thaw stability of emulsions of siloxanes containing Si-bonded H. The emulsions are resistant to hydrolytic splitting to H. The emulsions are useful for the waterproofing of textiles, as crosslinking agents for siloxanes, etc. Thus, an emulsion (pH 3-4) comprising a poly(methylhydrogensiloxane) 80, C12H25(PhCH2)NMe2Cl [139-07-1] 7, glycerol 2, EtOH 1, and water 110 parts was stable during a freeze-thaw test (-20°). The emulsion (300 mL) formed 8 mL H during 24 h of stirring at 40°.

IT **59355-81-6**
RL: USES (Uses)
(emulsifying agents, for poly(methylhydrogensiloxane))

RN 59355-81-6 CAPLUS
CN Oxirane, methyl-, polymer with oxirane, mono[[(heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

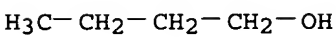
CM 1

CRN 123748-41-4
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3
CMF C4 H10 O

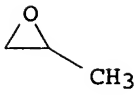


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

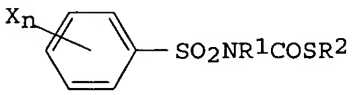
CRN 75-21-8
CMF C2 H4 O

L69 ANSWER 90 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:29975 CAPLUS
DOCUMENT NUMBER: 96:29975
TITLE: N-(Benzenesulfonyl)thiocarbamates as herbicidal antidotes
INVENTOR(S): Gaughan, Edmund J.; Kezerian, Charles
PATENT ASSIGNEE(S): Stauffer Chemical Co. , USA
SOURCE: Can., 20 pp. Division of Can. Appl. No. 262,513. CODEN: CAXXA4
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1110081	A2	19811006	CA 1980-362715	19801017
BE 846895	A2	19770401	BE 1976-7000898	19761001
CA 1103694	A1	19810623	CA 1976-262513	19761001
HU 22393	O	19820528	HU 1976-SA2980	19761001
HU 180069	B	19830128		
SU 671700	D	19790630	SU 1976-2412353	19761019
US 4356025	A	19821026	US 1981-241278	19810306
PRIORITY APPLN. INFO.:			US 1975-619115 A	19751002
			US 1976-723251 A	19760917
			CA 1976-262513 A3	19761001
			US 1979-108890 A3	19791231

GI



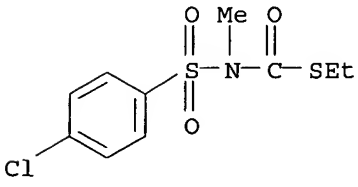
I

AB Herbicidal compns. containing a thiocarbamate herbicide and an N-(benzenesulfonyl)thiocarbamate I (X = H, Me, Cl, Br, OMe; R1 = H, Me; R2 = C1-4 alkyl, etc.; n = 1, 2 or 3) are antidotally active. Thus, preplant incorporation of Vernam (S-Pr N,N-di-Pr thiocarbamate) [1929-77-7] at 6 lb/acre in tank mix with N-(p-chlorobenzenesulfonyl)thiolcarbamate Et ester [63637-93-4] (6 lb/acre) in an exptl. system containing soybean, Setaria viridis and Echinochloa crus-galli provided 50% protection to soybean. Synthesis of the antidotes is described.

IT **63637-96-7**
RL: BIOL (Biological study)
(as thiocarbamate herbicidal antidote)

RN 63637-96-7 CAPLUS

CN Carbamothioic acid, [(4-chlorophenyl)sulfonyl]methyl-, S-ethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 91 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1980:567921 CAPLUS

DOCUMENT NUMBER: 93:167921

TITLE: Acaricidal sulfonamides

INVENTOR(S): Takahashi, Susumu; Kano, Saburo; Yamada, Tomio

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

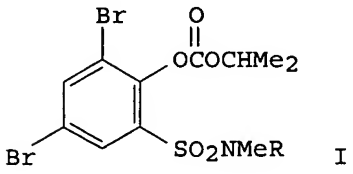
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55038354	A2	19800317	JP 1978-112629	19780913
PRIORITY APPLN. INFO.:			JP 1978-112629 A	19780913

GI



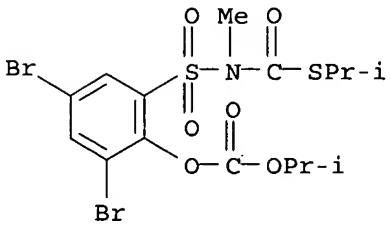
I

AB Sulfonamides I (R = alkylthiocarbonyl, alkylthioalkoxycarbonyl) were prepared and used as acaricides. Thus, refluxing 4 g I (R = H) K salt with 1.3 g Me2CHSCOCl in MeCN 2.5 h gave 3.9 g I (R = Me2CHSCO).

IT **75145-34-5P 75145-35-6P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and acaricidal activity of)

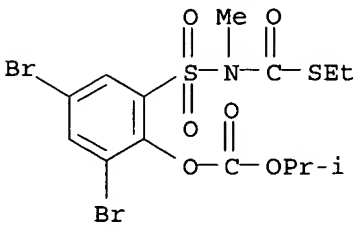
RN 75145-34-5 CAPLUS

CN Carbonic acid, 2,4-dibromo-6-[[methyl[[(1-methylethyl)thio]carbonyl]amino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 75145-35-6 CAPLUS

CN Carbonic acid, 2,4-dibromo-6-[[[(ethylthio)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 92 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:182867 CAPLUS
DOCUMENT NUMBER: 92:182867
TITLE: Preliminary data on lowering of the surface tension of a liquid paraffin by the effect of some derivatives of perfluorooctanesulfonic and perfluorooctanoic acids
AUTHOR(S): Napoli, Massimo; Fraccaro, Carla; Badan, Brando; Scipioni, Antonio
CORPORATE SOURCE: Italy
SOURCE: Atti - Istituto Veneto di Scienze, Lettere ed Arti, Classe di Scienze Matematiche e Naturali (1978), 136, 101-9
CODEN: AIVLAQ; ISSN: 0365-3528
DOCUMENT TYPE: Journal
LANGUAGE: Italian

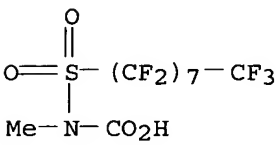
AB The decrease in the surface tension of liquid paraffins in the presence of derivs. of the perfluorooctanesulfonic acid and perfluorooctanoic acid depends on the solubility, nature of functional groups, organophobic-organophilic group ratio and F/H ratio. The decrease in surface tension of the paraffin with increasing solubility of the fluorinated compound was higher for amides than for esters of the fluorinated acids. The surface tension decreased with increasing F/H ratio in the fluorinated compds. was observed for esters while no correlation was observed in case of amides. The exptl. data suggested a higher organophilicity of the ester than of the amide group of the fluorinated compds.

IT **59355-81-6**
RL: USES (Uses)
(surfactant, for liquid paraffins)

RN 59355-81-6 CAPLUS
CN Oxirane, methyl-, polymer with oxirane, mono[[(heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

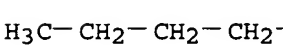
CM 1

CRN 123748-41-4
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3
CMF C4 H10 O

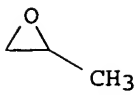


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

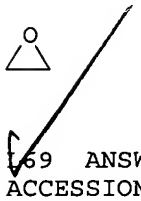
CM 4

CRN 75-56-9
CMF C3 H6 O



CM 5

CRN 75-21-8
CMF C2 H4 O



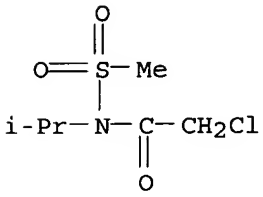
L69 ANSWER 93 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:41570 CAPLUS
DOCUMENT NUMBER: 92:41570
TITLE: Benzenesulfonamide derivatives
INVENTOR(S): Iwakura, Toshio; Hirakawa, Katsuhito; Takayama, Shuichi; Ito, Shigehisa
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 54090117	A2	19790717	JP 1977-157009	19771226
PRIORITY APPLN. INFO.:			JP 1977-157009 A	19771226

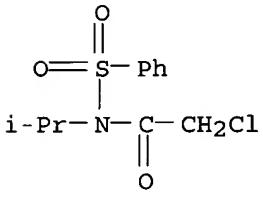
AB Twenty-seven title derivs. RSO2NR2COR1 [I, R = alkyl, R3C6H4, R3 = H, Cl, alkyl, AcNH; R1 = alkyl, chloroalkyl; R2 = alkyl, aryl, (R4)nC6H5-n, R4 = Cl, alkyl, n = 0-2] were prepared by reaction of RSO2NR2R5 (R5 = H, alkali metals) with R1COX (X = halo). Thus, 5.4 g ClCH2COCl was added to 8 g PhSO2NNaCH2Me in C6H6 and the mixture refluxed 3 h to give 63.6% I (R = Ph, R1 = ClCH2, R2 = Me2CH). Antibacterial data of I were given against Pyricularia orizae.

IT **38994-92-2P 72309-98-9P 72309-99-0P 72310-00-0P 72310-01-1P 72310-02-2P 72310-03-3P 72310-04-4P 72310-12-4P 72310-13-5P 72310-14-6P 72310-17-9P 72310-18-0P 72310-19-1P 72310-20-4P 72310-22-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)

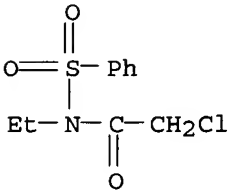
(preparation of)
RN 38994-92-2 CAPLUS
CN Acetamide, 2-chloro-N-(1-methylethyl)-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



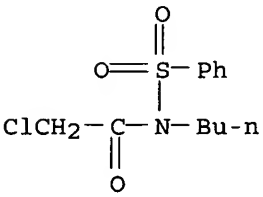
RN 72309-98-9 CAPLUS
CN Acetamide, 2-chloro-N-(1-methylethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



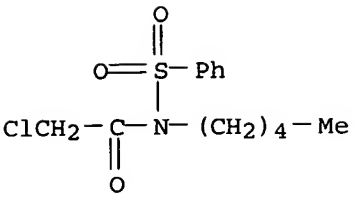
RN 72309-99-0 CAPLUS
CN Acetamide, 2-chloro-N-ethyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



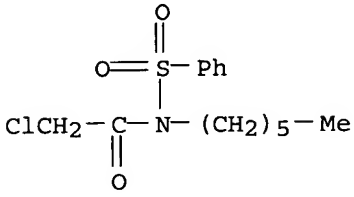
RN 72310-00-0 CAPLUS
CN Acetamide, N-butyl-2-chloro-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



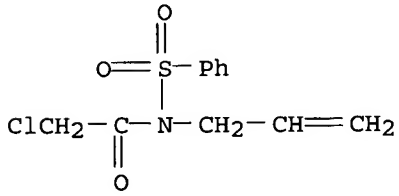
RN 72310-01-1 CAPLUS
CN Acetamide, 2-chloro-N-pentyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



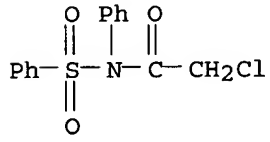
RN 72310-02-2 CAPLUS
CN Acetamide, 2-chloro-N-hexyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



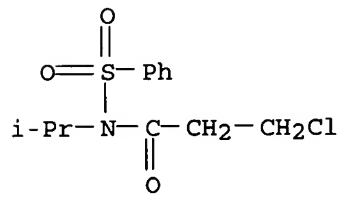
RN 72310-03-3 CAPLUS
CN Acetamide, 2-chloro-N-(phenylsulfonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



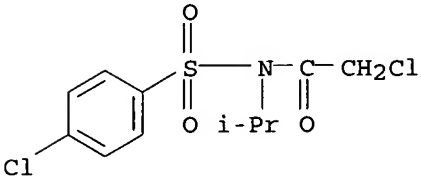
RN 72310-04-4 CAPLUS
CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



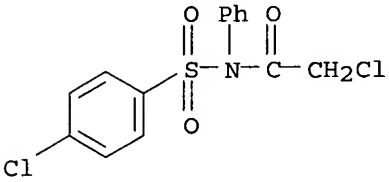
RN 72310-12-4 CAPLUS
CN Propanamide, 3-chloro-N-(1-methylethyl)-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



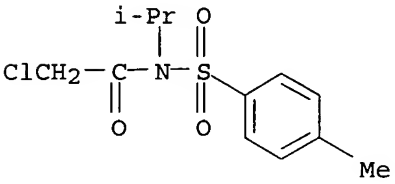
RN 72310-13-5 CAPLUS
CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



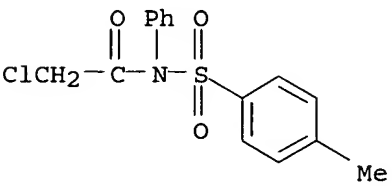
RN 72310-14-6 CAPLUS
CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



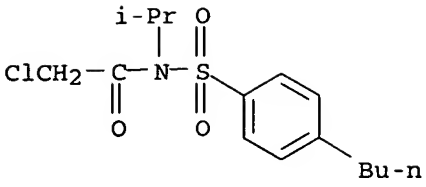
RN 72310-17-9 CAPLUS
CN Acetamide, 2-chloro-N-(1-methylethyl)-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



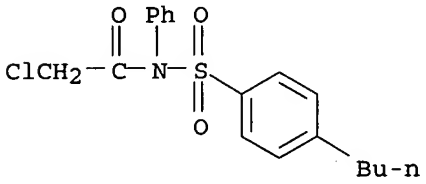
RN 72310-18-0 CAPLUS
CN Acetamide, 2-chloro-N-[(4-methylphenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



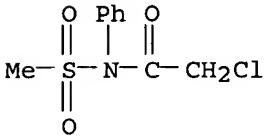
RN 72310-19-1 CAPLUS
CN Acetamide, N-[(4-butylphenyl)sulfonyl]-2-chloro-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 72310-20-4 CAPLUS
CN Acetamide, N-[(4-butylphenyl)sulfonyl]-2-chloro-N-phenyl- (9CI) (CA INDEX NAME)



RN 72310-22-6 CAPLUS
CN Acetamide, 2-chloro-N-(methylsulfonyl)-N-phenyl- (9CI) (CA INDEX NAME)



L69 ANSWER 94 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:6533 CAPLUS
DOCUMENT NUMBER: 92:6533
TITLE: Fungicidal carbamoyltriazolyl-O,N-acetals
INVENTOR(S): Buechel, Karl Heinz; Kraemer, Wolfgang; Brandes, Wilhelm
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

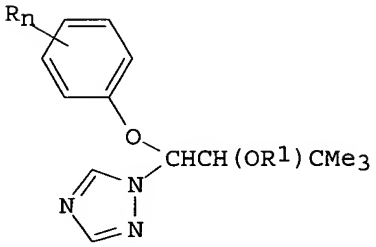
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2800544	A1	19790719	DE 1978-2800544	19780107
CA 1094258	A1	19810127	CA 1977-272661	19770225
US 4237142	A	19801202	US 1978-971291	19781220
EP 3049	A2	19790725	EP 1978-101848	19781223
EP 3049	B1	19800820		
EP 3049	A3	19790808		

R: BE, CH, DE, FR, GB, IT, NL, SE

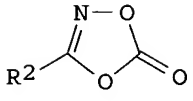
RO 75739	P	19810228	RO 1978-96067		19781227
SU 910108	A3	19820228	SU 1979-2706202		19790103
CS 204043	P	19810331	CS 1979-134		19790104
DK 7900046	A	19790708	DK 1979-46		19790105
JP 54100377	A2	19790808	JP 1979-72		19790105
BR 7900048	A	19790814	BR 1979-48		19790105
ES 476617	A1	19791101	ES 1979-476617		19790105
ZA 7900045	A	19800130	ZA 1979-45		19790105
DD 141256	C	19800423	DD 1979-210358		19790105
AT 7900107	A	19810115	AT 1979-107		19790105
AT 363723	B	19810825			
PL 115653	B1	19810430	PL 1979-212674		19790105
CA 1113945	A1	19811208	CA 1979-319159		19790105
HU 23086	O	19820830	HU 1979-BA3745		19790105
HU 180673	B	19830429			
IL 56378	A1	19830515	IL 1979-56378		19790105
AU 7943183	A1	19790712	AU 1979-43183		19790108
AU 517276	B2	19810716			

PRIORITY APPLN. INFO.: DE 1978-2800544 A 19780107

GI



I



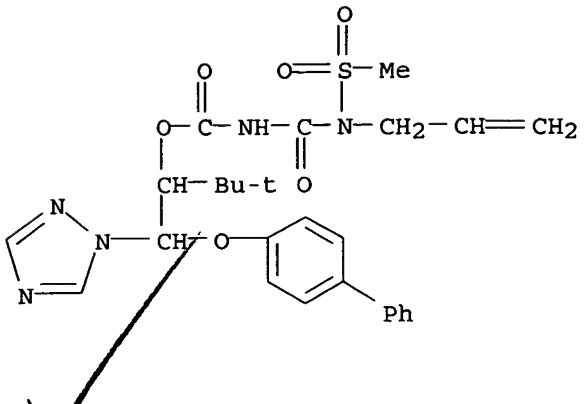
II

AB The title compds. I [R = halogen, alkyl, alkoxy, esterified CO2H, (un)substituted Ph, PhO, or phenylalkyl, NH2, NO2, CN, etc; R1 = R2CO; R2 = alkyl, halo- or alkoxyalkyl, esterified CO2H, substituted Ph, alkylsulfonylalkenylcarbamoyl; n = 0-5] were prepared by the reaction of I (R1 = H) with R2NCO or II and tested for fungicidal activity. Thus, I (Rn = 4-Ph, R1 = H) reacted with MeOCH2NCO in THF to give I (Rn = 4-Ph, R1 = MeOCH2NHCO).

IT **72013-92-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 72013-92-4 CAPLUS

CN Carbamic acid, [[(methylsulfonyl)-2-propenylamino]carbonyl]-, 1-[([1,1'-biphenyl]-4-yloxy)-1H-1,2,4-triazol-1-ylmethyl]-2,2-dimethylpropyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 95 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1978:530453 CAPLUS
DOCUMENT NUMBER: 89:130453
TITLE: Stable alkylhydrogenpolysiloxane emulsions
INVENTOR(S): Steinbach, Hans Horst; Schnurrbusch, Karl; Rieder, Matthias; Weiden, Otto
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2701724	A1	19780720	DE 1977-2701724	19770118
DE 2701724	C2	19840920		
US 4179426	A	19791218	US 1978-866965	19780104
GB 1591957	A	19810701	GB 1978-1454	19780113
FI 7800135	A	19780719	FI 1978-135	19780116
FI 68647	B	19850628		
FI 68647	C	19851010		
CA 1109576	A1	19810922	CA 1978-294968	19780116
SE 7800541	A	19780719	SE 1978-541	19780117
SE 425807	B	19821108		
SE 425807	C	19830217		
NL 7800546	A	19780720	NL 1978-546	19780117
BR 7800259	A	19780905	BR 1978-259	19780117
BE 863006	A1	19780718	BE 1978-56607	19780118
FR 2377438	A1	19780811	FR 1978-1404	19780118
FR 2377438	B1	19851025		
AT 7800356	A	19820915	AT 1978-356	19780118
AT 370758	B	19830510		

PRIORITY APPLN. INFO.: DE 1977-2701724 A 19770118

AB A perfluoroalkyl group-containing emulsifier and, optionally, a perfluoroalkyl group-containing siloxane were used to prepare stable aqueous emulsions of alkylhydrogen siloxanes with good stabilization of the Si-H bonds. The emulsions were especially suitable as waterproofing compns. for textiles. Thus,

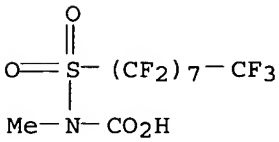
35 parts methylhydrogen siloxane was mixed with 64.5 parts water containing 0.5 part C8F17SO2NMeCO(OC2H4)30(OC3H6)30OBu [**59355-81-6**] to prepare a stable emulsion.

IT **59355-81-6**

RL: USES (Uses)
(emulsifiers, for alkylhydrogen siloxanes)
RN 59355-81-6 CAPLUS
CN Oxirane, methyl-, polymer with oxirane, mono[[(heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

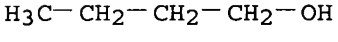
CM 1

CRN 123748-41-4
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3
CMF C4 H10 O

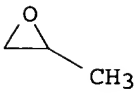


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



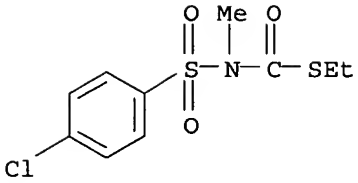
CM 5

CRN 75-21-8
CMF C2 H4 O

L69 ANSWER 96 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:534745 CAPLUS
DOCUMENT NUMBER: 87:134745
TITLE: N-(Benzenesulfonyl)thiocarbamates for herbicides
INVENTOR(S): Gaughan, Edmund J.; Kezerian, Charles
PATENT ASSIGNEE(S): Stauffer Chemical Co., USA
SOURCE: Ger. Offen., 27 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2644446	A1	19770414	DE 1976-2644446	19761001
DE 2644446	C2	19841122		
CH 628210	A	19820226	CH 1976-12384	19760930
BE 846895	A2	19770401	BE 1976-7000898	19761001
DK 7604423	A	19770403	DK 1976-4423	19761001
NL 7610907	A	19770405	NL 1976-10907	19761001
FR 2326418	A1	19770429	FR 1976-29554	19761001
FR 2326418	B1	19801017		
BR 7606585	A	19770705	BR 1976-6585	19761001
AU 504263	B2	19791011	AU 1976-18327	19761001
GB 1570997	A	19800709	GB 1976-40796	19761001
HU 22393	O	19820528	HU 1976-SA2980	19761001
HU 180069	B	19830128		
JP 52048641	A2	19770418	JP 1976-118907	19761002
JP 60014021	B4	19850411		
DD 127615	C	19771005	DD 1976-195120	19761002
RO 72431	P	19810831	RO 1976-87892	19761002
IL 50604	A1	19801130	IL 1976-50604	19761003
IN 144966	A	19780805	IN 1976-CA1812	19761004
PL 101802	P	19790228	PL 1976-192817	19761004
SU 671700	D	19790630	SU 1976-2412353	19761019
US 4297295	A	19811027	US 1979-108890	19791231
US 4356025	A	19821026	US 1981-241278	19810306
JP 58170704	A2	19831007	JP 1982-200507	19821117
PRIORITY APPLN. INFO.:			US 1975-619115 A	19751002
			US 1976-723251 A	19760917
			US 1979-108890 A3	19791231

OTHER SOURCE(S): CASREACT 87:134745
AB 4-RC6H4SO2NR1C(O)SR2 (I; R = H, Br, Cl, Me, MeO; R1 = H or Me; R2 = Et. Pr, Me2CH, PhCH2, 4-ClC6H4, CH2SCOSO2ClH4Cl-4) were prepared by treating 4-RC6H4SO2NHR1 with ClC(O)SR2. I and 2,4,6-Me3C6H2SO2NHC(O)SEt, similarly prepared, protected desirable plants in herbicide mixts.
IT **63637-96-7P**
RL: PREP (Preparation)
(manufacture of, and use as protective agents for desireable plants in herbicides)
RN 63637-96-7 CAPLUS
CN Carbamothioic acid, [(4-chlorophenyl)sulfonyl]methyl-, S-ethyl ester (9CI) (CA INDEX NAME)

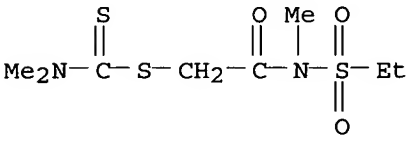


L69 ANSWER 97 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:467824 CAPLUS
DOCUMENT NUMBER: 87:67824
TITLE: Synthesis and biological properties of dithiocarbamic acid derivatives. X. The fungicide effectiveness of several N,N-dimethyldithiocarbamates
AUTHOR(S): Konecny, V.; Halgas, J.
CORPORATE SOURCE: Res. Inst. Agrochem. Technol., Bratislava, Czech.
SOURCE: Acta Facultatis Rerum Naturalium Universitatis Comenianae, Chimia (1977), 25, 37-67
CODEN: AFRCAQ; ISSN: 0524-2312
DOCUMENT TYPE: Journal
LANGUAGE: German

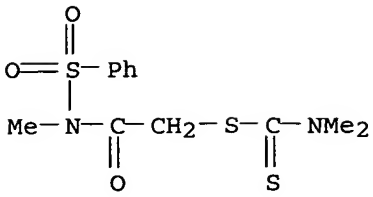
AB Preparative and fungicidal data are given for 140 derivs. of Me2NCS2H. These include 81 Me2NCS2R (R = alkyl, alkenyl, cycloalkyl, Ph, CH2Ph, any of the foregoing substituted, including 37 ring-substituted benzyls, PhCH2SO2, etc.), 15 Me2NCS2(CH2)nS(CH2)mR (R = Ph or substituted phenyl; n = 0, 1, or 2, m = 0 or 1), 12 Me2NCS2(CH2)nOR (R = H, Et, acyl; n = 1 or 2), 19 Me2NCS2CH2COR (R = OH, alkoxy, NH2, substituted amino, N-heterocyclyl, etc.), and 13 Me2NCS2C(X)R (R = substituted amino, Ph, isopropoxy, etc.).

IT **30895-93-3P 30895-94-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)

RN 30895-93-3 CAPLUS
CN Carbamodithioic acid, dimethyl-, 2-[(ethylsulfonyl)methylamino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



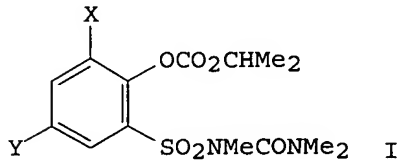
RN 30895-94-4 CAPLUS
CN Carbamodithioic acid, dimethyl-, 2-[methyl(phenylsulfonyl)amino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 98 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:184574 CAPLUS
DOCUMENT NUMBER: 86:184574
TITLE: Sulfamoylphenol derivatives as acaricides
INVENTOR(S): Kano, Saburo; Ando, Meiki
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 52007937	A2	19770121	JP 1975-84117		19750709
PRIORITY APPLN. INFO.:			JP 1975-84117	A	19750709

GI



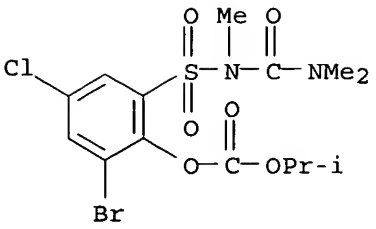
I

AB The sulfamoylphenyl carbonates I (X = Y = halogen) are acaricides. I (X = Br, Y = Cl) (II) [**62572-95-6**] was prepared by treating K iso-Pr 2-bromo-4-chloro-6-(N-methylsulfamoyl)phenyl carbonate (III) [62572-96-7] with dimethylcarbamoyl chloride [79-44-7]. III was synthesized by adding iso-Pr chloroformate [108-23-6] to 2-bromo-4-chloro-6-N-methylsulfamoylphenol K salt [62572-97-8]. Similarly, 2 other I were prepared II sprayed at 125 ppm on beans completely controlled Panonychus urticae infestation.

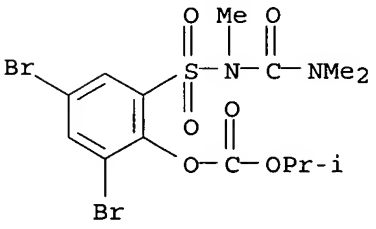
IT **62572-95-6P 62572-98-9P 62572-99-0P**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and acaricidal activity of)

RN 62572-95-6 CAPLUS

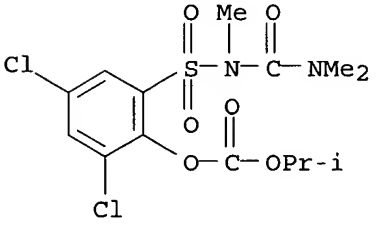
CN Carbonic acid, 2-bromo-4-chloro-6-[[[(dimethylamino)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 62572-98-9 CAPLUS
CN Carbonic acid, 2,4-dibromo-6-[[[(dimethylamino)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 62572-99-0 CAPLUS
CN Carbonic acid, 2,4-dichloro-6-[[[(dimethylamino)carbonyl]methylamino]sulfonyl]phenyl 1-methylethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 99 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1976:432660 CAPLUS
DOCUMENT NUMBER: 85:32660
TITLE: Isocyanates
INVENTOR(S): Hagemann, Hermann
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 9 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

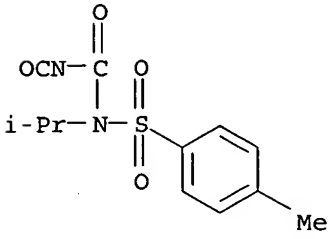
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2449365	A1	19760422	DE 1974-2449365	19741017
PRIORITY APPLN. INFO.:			DE 1974-2449365 A	19741017

AB RSO2NR1CONCO (I; R = Me, Ph, 4-MeC6H4; R1 = Me, Me2CH, Et, allyl, Ph) were

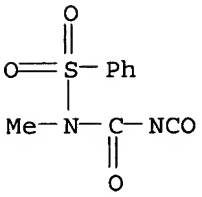
prepared in 78-93% yield by the reaction of RSO2NHR1 with ClCONCO in PhCl at 130°. I are useful as water-binding agents in polyurethanes.

IT **59639-93-9P 59639-94-0P 59639-95-1P**
59639-97-3P 59639-98-4P 59639-99-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

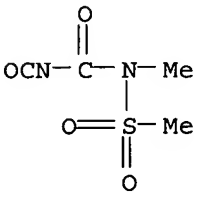
RN 59639-93-9 CAPLUS
CN Benzenesulfonamide, N-(isocyanatocarbonyl)-4-methyl-N-(1-methylethyl)-(9CI) (CA INDEX NAME)



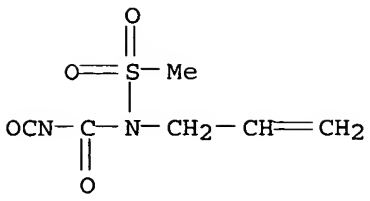
RN 59639-94-0 CAPLUS
CN Benzenesulfonamide, N-(isocyanatocarbonyl)-N-methyl- (9CI) (CA INDEX NAME)



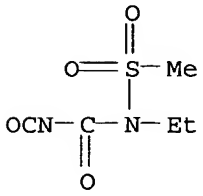
RN 59639-95-1 CAPLUS
CN Methanesulfonamide, N-(isocyanatocarbonyl)-N-methyl- (9CI) (CA INDEX NAME)



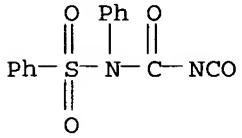
RN 59639-97-3 CAPLUS
CN Methanesulfonamide, N-(isocyanatocarbonyl)-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 59639-98-4 CAPLUS
CN Methanesulfonamide, N-ethyl-N-(isocyanatocarbonyl)- (9CI) (CA INDEX NAME)



RN 59639-99-5 CAPLUS
CN Benzenesulfonamide, N-(isocyanatocarbonyl)-N-phenyl- (9CI) (CA INDEX NAME)



L69 ANSWER 100 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1976:422318 CAPLUS
Correction of: 1976:60566
DOCUMENT NUMBER: 85:22318
Correction of: 84:60566
TITLE: Polyethers containing perfluoroalkyl groups
INVENTOR(S): Meussdoerffer, Johann N.; Niederpruem, Hans; Dahmm, Manfred
PATENT ASSIGNEE(S): Bayer A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 15 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2238740		19740207	DE 1972-2238740	19720805

AB The title compds. R1SO2N(R2)CO(OZ)nOR3 (R1 = C1-20 perfluoroalkyl; R2 = H, alkyl, CO2(OZ)nOR3; R3 = alkyl, cycloalkyl, CON(R2)SO2R1; Z = alkylene), useful as foam stabilizers for polyurethane foams, are prepared by reaction of R1SO2NR2H with polyalkylene glycol chloroformates. Thus, stirring 250 g polyethylene-polypropylene glycol monobutyl ether chloroformate (mol.

weight .apprx.1500, hydrolyzable Cl 2.2%), 77.4 g perfluorooctanesulfonamide, 22 ml Et3N, and 200 ml PhMe 30 min at .apprx.80° gives an oily product [59355-79-2], hydrolyzable Cl content 0.05%, solidifying slowly to a wax. A polyurethane containing 0.5% of this product gives a fine-porous foam, while in the absence of stabilizer the foam collapses.

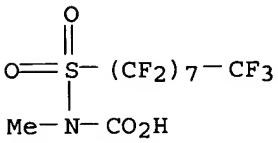
IT **59355-81-6**
RL: USES (Uses)
(stabilizers, for polyurethane foam manufacture)

RN 59355-81-6 CAPLUS

CN Oxirane, methyl-, polymer with oxirane, mono[[(heptadecafluorooctyl)sulfonyl]methylcarbamate], butyl ether (9CI) (CA INDEX NAME)

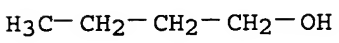
CM 1

CRN 123748-41-4
CMF C10 H4 F17 N O4 S



CM 2

CRN 71-36-3
CMF C4 H10 O

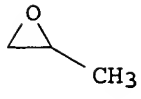


CM 3

CRN 9003-11-6
CMF (C3 H6 O . C2 H4 O)x
CCI PMS

CM 4

CRN 75-56-9
CMF C3 H6 O



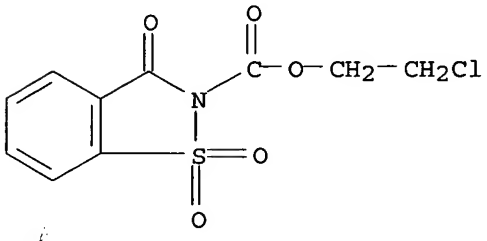
CM 5

CRN 75-21-8
CMF C2 H4 O

L69 ANSWER 101 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:140119 CAPLUS
DOCUMENT NUMBER: 82:140119
TITLE: 2-Substituted-1,2-benzoisothiazoline-3-oxo-1,1-dioxide
INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi; Ito, Hideo
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 6 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 49020779	B4	19740527	JP 1970-119663	19701228
PRIORITY APPLN. INFO.:			JP 1970-119663 A	19701228

GI For diagram(s), see printed CA Issue.
AB Benzoisothiazolinones I (R1 = Me, ClCH2CH2, Me2CH, Ph, 4-BrC6H4, 4-ClC6H4, 4-MeC6H4, 4-O2NC6H4), useful as bactericides, were prepared by alkoxycarbonylation of saccharin (II) by R1O2CCl with NaCO3 or NaHCO3. Thus, 18.3 g II in MeCN was stirred with ClCH2CH2O2Cl and 8.4 g NaHCO3 2 hr at 40° to give 81% I (R1 = ClCH2CH2).
IT **54952-63-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of bactericidal)
RN 54952-63-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, 2-chloroethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



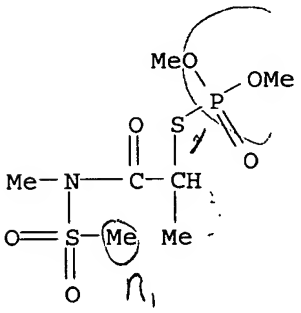
L69 ANSWER 102 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:57814 CAPLUS
DOCUMENT NUMBER: 82:57814
TITLE: Synthesis of derivatives of S-[1-(N-methyl-N-methylsulfonyl)carbamoylethyl]thio- and -dithiophosphoric acid
AUTHOR(S): Mandel'baum, Ya. A.; Itskova, A. L.; Mel'nikov, N. N.; Gar, K. A.; Bokarev, E. M.
CORPORATE SOURCE: USSR
SOURCE: Khimicheskie Sredstva Zashchity Rastenii (1972), 2,

302-5
CODEN: KSZRA6
DOCUMENT TYPE: Journal
LANGUAGE: Russian

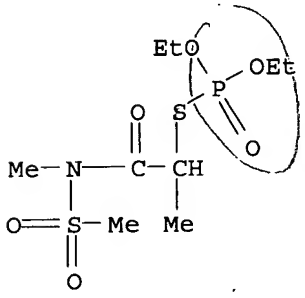
AB Thiophosphoric acids (RO)R1P(X)SCHMeCONMe(SO2Me) I (R = Me, Et, Me2N, PrNH; R1 = MeO, EtO, Me, Et; X = O, S) were prepared in 56-92.3% yields by reaction of (RO)R1P(X)SM (M = Metal) with MeCHClCONMe(SO2Me). In acaricidal toxicity tests, some I were twice as effective as (MeO)2P(S)OC6H4NO2-p.

IT **54905-17-8P 54905-18-9P 54905-19-0P 54905-20-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and acaricidal properties of)

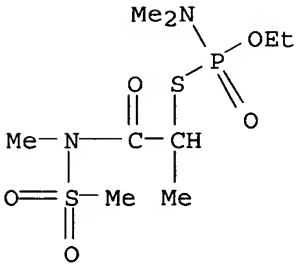
RN 54905-17-8 CAPLUS
CN Phosphorothioic acid, O,O-dimethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



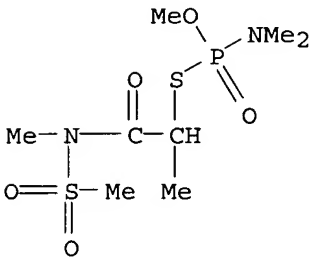
RN 54905-18-9 CAPLUS
CN Phosphorothioic acid, O,O-diethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



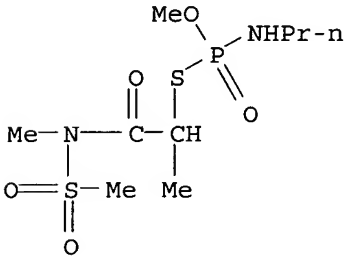
RN 54905-19-0 CAPLUS
CN Phosphoramidothioic acid, dimethyl-, O-ethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



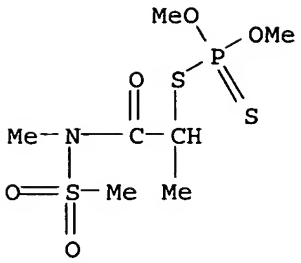
RN 54905-20-3 CAPLUS
CN Phosphoramidothioic acid, dimethyl-, O-methyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



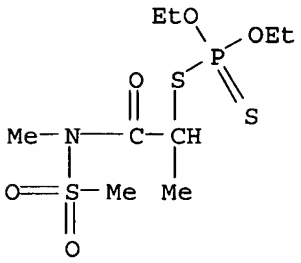
IT **54905-21-4P 54905-22-5P 54905-23-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 54905-21-4 CAPLUS
CN Phosphoramidothioic acid, propyl-, O-methyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



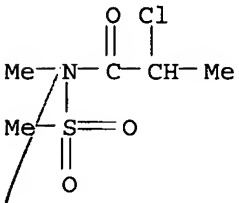
RN 54905-22-5 CAPLUS
CN Phosphorodithioic acid, O,O-dimethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



RN 54905-23-6 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[1-methyl-2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)

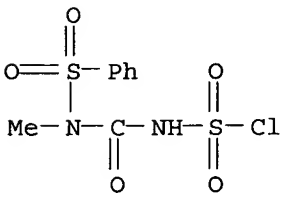


IT **38994-93-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with thiophosphate)
RN 38994-93-3 CAPLUS
CN Propanamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)

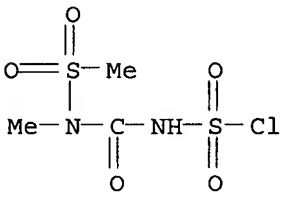


L69 ANSWER 103 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1974:108106 CAPLUS
DOCUMENT NUMBER: 80:108106
TITLE: Organic sulfonyl isocyanates
AUTHOR(S): Appel, Rolf; Montenarh, Mathias
CORPORATE SOURCE: Anorg.-Chem. Inst., Univ. Bonn, Bonn, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1974), 107(2), 706-9
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Reaction of RSO2NHR1 (R = Me, Ph, or 4-MeC6H4; R1 = H or Me) with ClSO2NCO in C6H6 under ice cooling or at 90-5° gave the corresponding RSO2NR1CONHSO2Cl (I) or RSO2NCO (II), resp. Hydrolysis or refluxing of I in C6H6 gave RSO2NR1CONH2 or II, resp.
IT **52072-79-4P 52072-80-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52072-79-4 CAPLUS
CN Sulfamoyl chloride, [[methyl(phenylsulfonyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 52072-80-7 CAPLUS
CN Sulfamoyl chloride, [[methyl(methylsulfonyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



L69 ANSWER 104 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1973:551614 CAPLUS
DOCUMENT NUMBER: 79:151614
TITLE: Crosslinking of hydrophilic colloids
INVENTOR(S): Kyburz, Rolf
PATENT ASSIGNEE(S): Ciba-Geigy A.-G.
SOURCE: Ger. Offen., 44 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2309098	A1	19730913	DE 1973-2309098	19730223
CH 563598	A	19750630	CH 1972-2722	19720225
FR 2173009	A1	19731005	FR 1973-4535	19730208
CA 1008848	A1	19770419	CA 1973-163607	19730213
US 4001201	A	19770104	US 1973-333247	19730216
US 333247	A1	19760316		
GB 1416462	A	19751203	GB 1973-8287	19730220
GB 1416463	A	19751203	GB 1974-52240	19730220
BE 795839	A1	19730823	BE 1973-127993	19730223
IT 977477	A	19740910	IT 1973-48413	19730223
JP 48095450	A2	19731207	JP 1973-21797	19730224
JP 57024535	B4	19820525		

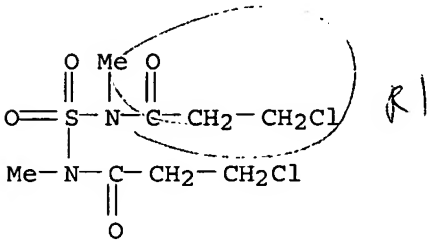
PRIORITY APPLN. INFO.: CH 1972-2722 A 19720225

AB Organic crosslinking agents containing sulfonyl linkages are used as hardeners in photog. gelatin emulsions. Thus, 0.1 mole H2NSO2NH2, 1.1 mole 3-chloropropionyl chloride, and 0.3 ml SbCl5 are reacted at 70-80°, and the (ClCH2CO2NH)2SO2 (I) produced is collected. To 6 ml 6% aqueous gelatin are added 1 ml 1% aqueous dye solution, 5 ml H2O, and 1 ml 0.0025M I. This solution is coated on a cellulose triacetate support, and the swelling of the coating under various temperature and humidity conditions measured. Improved resistance to swelling is observed compared to a I-free solution

IT **50695-61-9**
RL: USES (Uses)
(photographic hardening agent)

RN 50695-61-9 CAPLUS

CN Propanamide, N,N'-sulfonylbis[3-chloro-N-methyl- (9CI) (CA INDEX NAME)



L69 ANSWER 105 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1973:124224 CAPLUS

DOCUMENT NUMBER: 78:124224

TITLE: Syntheses of imide derivatives

AUTHOR(S): Kato, Kiyoshi; Yoshida, Matayasu; Ishikawa, Yoichiro

CORPORATE SOURCE: Gov. Ind. Res. Inst., Osaka, Japan

SOURCE: Yuki Gosei Kagaku Kyokaishi (1972), 30(10), 897-9
CODEN: YGKKAE; ISSN: 0037-9980

DOCUMENT TYPE: Journal

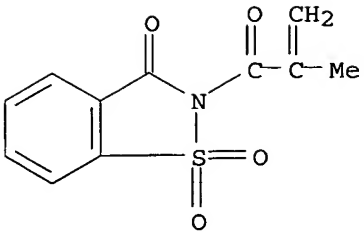
LANGUAGE: Japanese

AB 2-cis-Δ4-Tetrahydrophthalmidoethyl (70.2%), phthalimidomethyl (85.7%), 2-phthalimidoethyl (64.4%), and 2-naphthalimidoethyl (100%) acrylates, 2-cis-Δ4-tetrahydrophthalimidoethyl (72.6%), 2-naphthalimidoethyl (100%), and 2-o-sulfobenzoimidoethyl methacrylates (74.3%), N-acryloylphthalimide (72.1%), N-methacryloyl succinimide (93.4%), N-methacryloylpthalimide (94.4%) and N-methacryloyl-o-sulfobenzoimide (93.6%) were prepared by the condensation of acryloyl chloride or methacryloyl chloride with the imidoalc. or imide and NEt3 at 20-40° in MeCN, Me2CO, dioxane, benzene, or DMF. 2-Phthalimidoethyl methacrylate (93.4%) was prepared by esterification of methacrylic acid with N-(2-hydroxyethyl)phthalimide in the presence of p-MeC6H4SO3H and p-MeC6H4SO3H and p-(HO)2C6H4 in benzene.

IT **40581-15-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 40581-15-5 CAPLUS

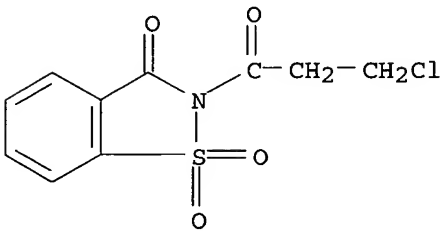
CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-methyl-1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L69 ANSWER 106 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:564667 CAPLUS
DOCUMENT NUMBER: 77:164667
TITLE: 2-Substituted 1,2-benzoisothiazolin-3-one 1,1-dioxides
INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47020158	B4	19720927	JP 1971-10094	19710227

GI For diagram(s), see printed CA Issue.
AB The title compds. (I), antibacterial and antifungal for plants, were prepared by treating saccharin (II) with chloroformates. Thus, II was treated with ClCOEt in C6H6 in the presence of pyridine to give 92.1 I (R = Et). I (R = Me; (CH2)2Cl, iso-Pr, Ph; p-MeC6H4) were similarly prepared
IT **37952-91-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 37952-91-3 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(3-chloro-1-oxopropyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



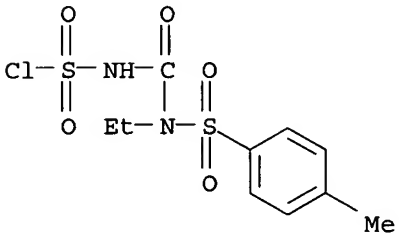
L69 ANSWER 107 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:539387 CAPLUS
DOCUMENT NUMBER: 77:139387
TITLE: Alkoxysulfonyl isocyanates
AUTHOR(S): Lattrell, Rudolf; Lohaus, Gerhard
CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/M., Fed. Rep. Ger.
SOURCE: Chemische Berichte (1972), 105(9), 2800-4
CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal
LANGUAGE: German

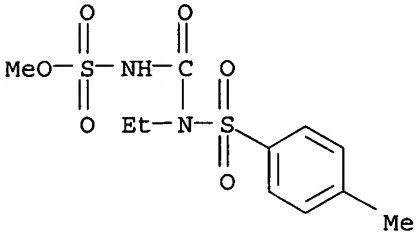
AB Highly reactive title compds. ROSO2NCO (R = Me, Et, Pr, Me2CHCH2, n-C7H17, CH2:CHCH2, or MeOCH2CH2) were prepared in ≤77% yield by thermal decomposition of ROSO2NHCOR1 (I, R1 = 2,4,6-Cl3C6H2O, 2,6,4-Cl2PhC6H2O, p-MeC6H4SO2NEt, or succinimido). I were obtained by reaction of ClSO2NCO with R1H via ClSO2NHCOR1, which then reacted with ROH.

IT **37477-72-8P 37477-77-3P 37602-06-5P 37602-09-8P 37602-10-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

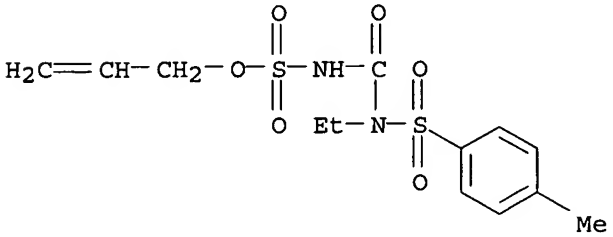
RN 37477-72-8 CAPLUS
CN Sulfamoyl chloride, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



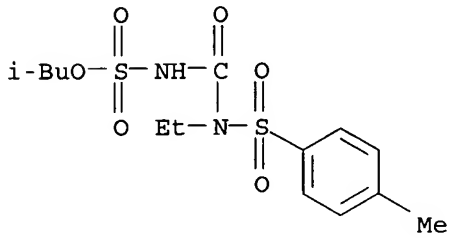
RN 37477-77-3 CAPLUS
CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)



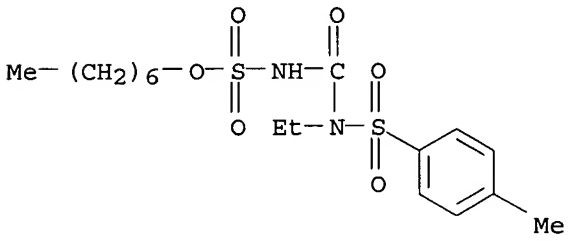
RN 37602-06-5 CAPLUS
CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)



RN 37602-09-8 CAPLUS
CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



RN 37602-10-1 CAPLUS
CN Sulfamic acid, [[ethyl[(4-methylphenyl)sulfonyl]amino]carbonyl]-, heptyl ester (9CI) (CA INDEX NAME)



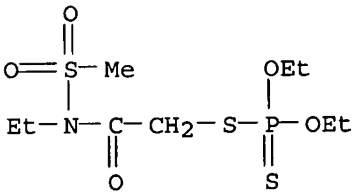
L69 ANSWER 108 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:496207 CAPLUS
DOCUMENT NUMBER: 77:96207
TITLE: Polarographic study of sulfonamides. I. N-carbonyl-containing alkyl(or aryl)sulfonamides
AUTHOR(S): Supin, G. S.; Itskova, A. L.; Mandel'baum, Ya. A.
CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Khim. Sredstv Zashch. Rast., Moscow, USSR
SOURCE: Zhurnal Obshchei Khimii (1972), 42(6), 1186-90
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB Polarog. data are tabulated for 34 compds. of general types RSO2NR1R2 (R = Me, Ph, p-ClC6H4, p-MeC6H4, 2,4-Cl2C6H3; R1 = H, Me, Et, Pr, Bu, CHMe2; R2 = Et, Pr, COCH2Cl, COCHMeCl), RSO2NR1COCH2SP(X)(OEt)2 (R = Me, Et, p-ClC6H4; R1 = H, Me, Et, Pr, Bu; X = O, S), and MeSO2NR1COCH2SP(O)(OEt)R3(R3 = Ph, NHPr, NHCH2CHMe2, NMe2, NEt2, NHEt). Sulfonamides with electron-acceptor groups in either part of the mol. are reduced polarog. by cleavage of the S-N bond, and the half-wave potentials or wave heights are independent of the pH provided that the N atom is completely substituted; the amides with 1 NH residue can dissociate by loss of H+ and their anionic form is incapable of reduction, so that with pH >3-4 their polarog. waves become kinetic and vanish at pH >7. Derivs. of phosphoromono(and di)thioic acids show evidence of transmission of electronic substituent effects through the P atom. Increased chain length of alkyl groups in the amide portion facilitates the polarog. reduction of the

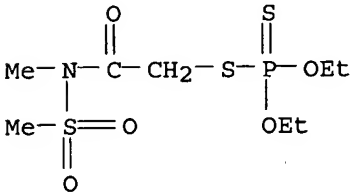
amides owing to increased electron donor ability of the bridge.

IT **22608-14-6 22726-07-4 38994-88-6**
38994-89-7 38994-90-0 38994-91-1
38994-92-2 38994-93-3 38994-94-4
38994-95-5 38994-98-8 38994-99-9
38995-00-5 38995-01-6 38995-02-7
38995-03-8 38995-04-9 38995-06-1
38995-07-2 38995-08-3 38995-09-4
38995-10-7 38995-11-8 38995-12-9
38995-13-0 38995-14-1
RL: PROC (Process)
(polarography of)

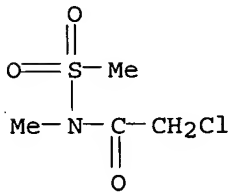
RN 22608-14-6 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



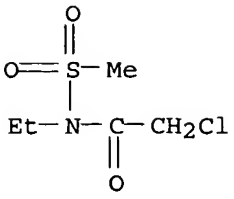
RN 22726-07-4 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



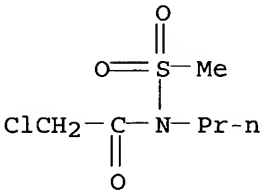
RN 38994-88-6 CAPLUS
CN Acetamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



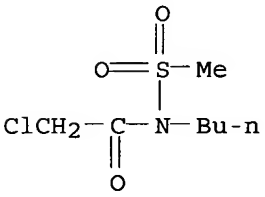
RN 38994-89-7 CAPLUS
CN Acetamide, 2-chloro-N-ethyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



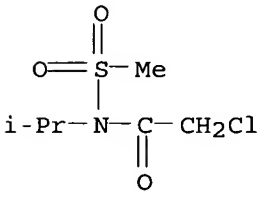
RN 38994-90-0 CAPLUS
CN Acetamide, 2-chloro-N-(methylsulfonyl)-N-propyl- (9CI) (CA INDEX NAME)



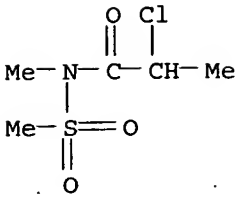
RN 38994-91-1 CAPLUS
CN Acetamide, N-butyl-2-chloro-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



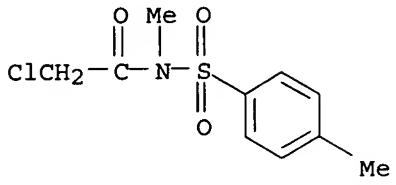
RN 38994-92-2 CAPLUS
CN Acetamide, 2-chloro-N-(1-methylethyl)-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



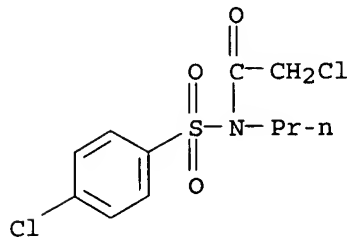
RN 38994-93-3 CAPLUS
CN Propanamide, 2-chloro-N-methyl-N-(methylsulfonyl)- (9CI) (CA INDEX NAME)



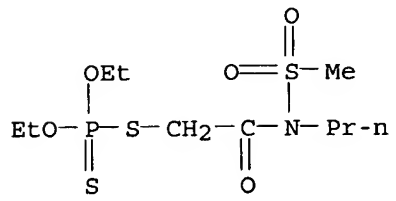
RN 38994-94-4 CAPLUS
CN Acetamide, 2-chloro-N-methyl-N-[(4-methylphenyl)sulfonyl]- (9CI) (CA INDEX NAME)



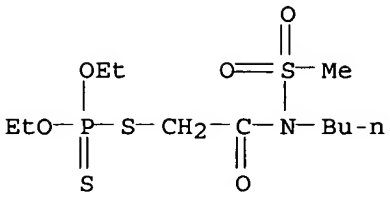
RN 38994-95-5 CAPLUS
CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-propyl- (9CI) (CA INDEX NAME)



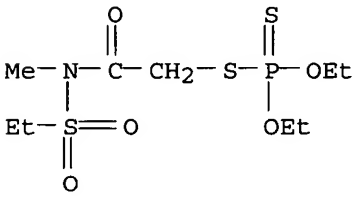
RN 38994-98-8 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[(methylsulfonyl)propylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



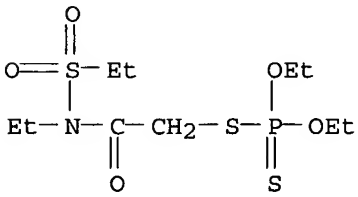
RN 38994-99-9 CAPLUS
CN Phosphorodithioic acid, S-[2-[butyl(methylsulfonyl)amino]-2-oxoethyl] O,O-diethyl ester (9CI) (CA INDEX NAME)



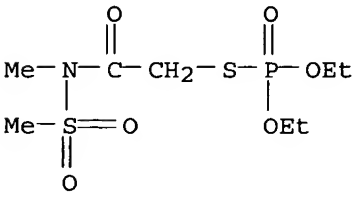
RN 38995-00-5 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[(ethylsulfonyl)methylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



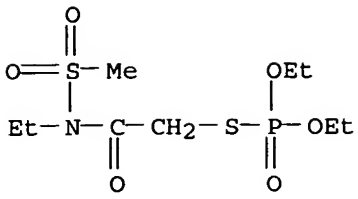
RN 38995-01-6 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[ethyl(ethylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



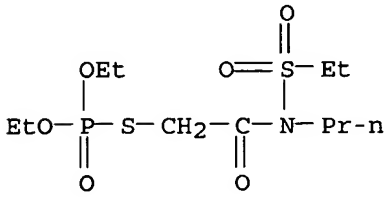
RN 38995-02-7 CAPLUS
CN Phosphorothioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



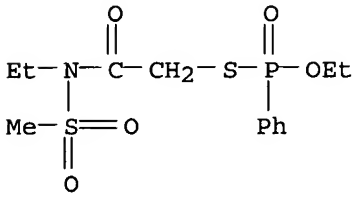
RN 38995-03-8 CAPLUS
CN Phosphorothioic acid, O,O-diethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



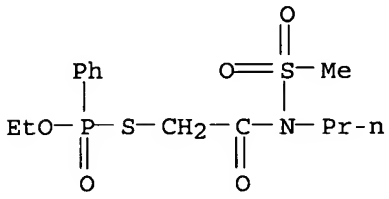
RN 38995-04-9 CAPLUS
CN Phosphorothioic acid, O,O-diethyl S-[2-[(ethylsulfonyl)propylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



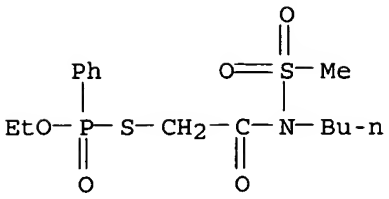
RN 38995-06-1 CAPLUS
CN Phosphonothioic acid, phenyl-, O-ethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



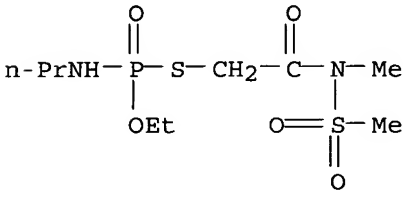
RN 38995-07-2 CAPLUS
CN Phosphonothioic acid, phenyl-, O-ethyl S-[2-[(methylsulfonyl)propylamino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



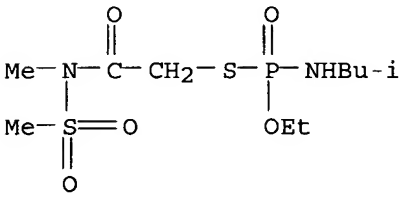
RN 38995-08-3 CAPLUS
CN Phosphonothioic acid, phenyl-, S-[2-[butyl(methylsulfonyl)amino]-2-oxoethyl] O-ethyl ester (9CI) (CA INDEX NAME)



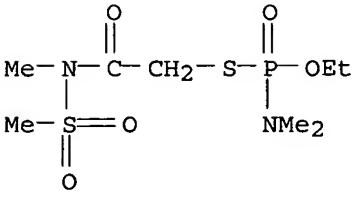
RN 38995-09-4 CAPLUS
CN Phosphoramidothioic acid, propyl-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



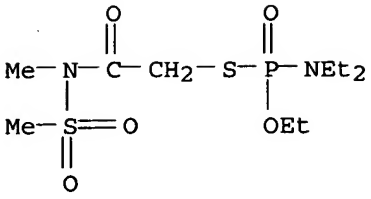
RN 38995-10-7 CAPLUS
CN Phosphoramidothioic acid, (2-methylpropyl)-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



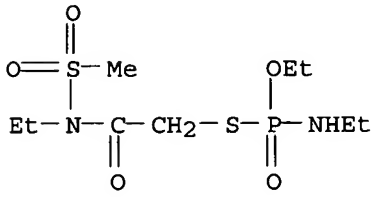
RN 38995-11-8 CAPLUS
CN Phosphoramidothioic acid, dimethyl-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



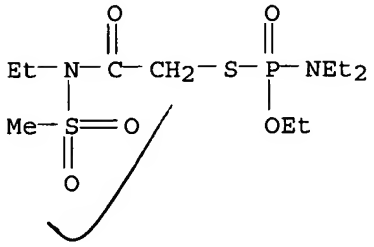
RN 38995-12-9 CAPLUS
CN Phosphoramidothioic acid, diethyl-, O-ethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



RN 38995-13-0 CAPLUS
CN Phosphoramidothioic acid, ethyl-, O-ethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



RN 38995-14-1 CAPLUS
CN Phosphoramidothioic acid, diethyl-, O-ethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)

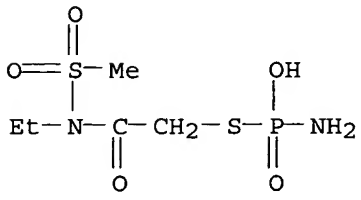


L69 ANSWER 109 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:109224 CAPLUS
DOCUMENT NUMBER: 76:109224
TITLE: Acaricide
INVENTOR(S): Itskova, A. L.; Gar, K. A.; Mandel'baum, Ya, A.; Fetisova, V. F.; Orlova, V. I.
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1971, 48(32), 202. CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 267244		19711028	SU	19680916

AB The thiophosphates I R = Me or Et, R1 = Me, Et, Pr, or iso-Pr, and R2 = H, Me or Et) were used as acaricides especially against cobweb mites.
IT **36525-37-8D**, Phosphoramidothioic acid, S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester, derivatives

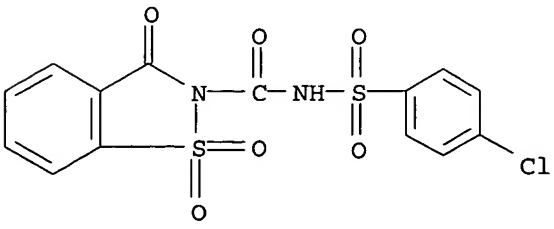
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(acaricides)
RN 36525-37-8 CAPLUS
CN Phosphoramidothioic acid, S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



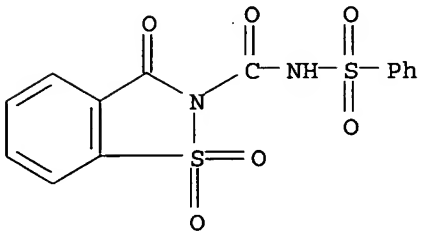
L69 ANSWER 110 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:14533 CAPLUS
DOCUMENT NUMBER: 76:14533
TITLE: 2-Carbamoyl-1,2-benzisothiazolin-3-one 1,1-dioxides
INVENTOR(S): Mine, Seizo; Shioyama, Itaru
PATENT ASSIGNEE(S): Japan Agricultural Chemicals and Insecticides Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 6 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 46036613	B4	19711027	JP	19691203

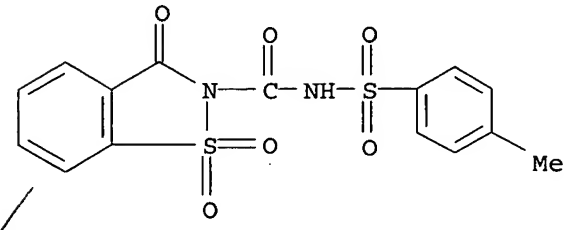
GI For diagram(s), see printed CA Issue.
AB I, useful as a fungicide for phytopathogenic fungi, was prepared Thus, 2-chlorocarbonylsaccharine was gradually added to a solution of PhCH2NH2 in dioxane and the mixture stirred 2 hr to give 71% I (R1 = PhCH2, R2 = H). Similarly prepared were 65 more I.
IT **28946-22-7P 28946-23-8P 28946-24-9P**
35131-57-8P 35131-58-9P 35131-59-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 28946-22-7 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



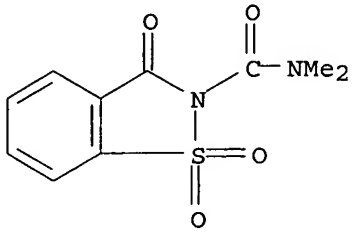
RN 28946-23-8 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



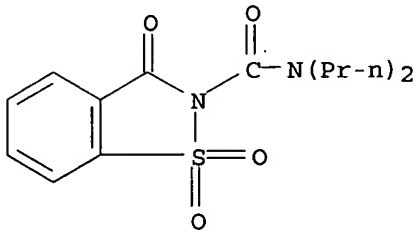
RN 28946-24-9 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



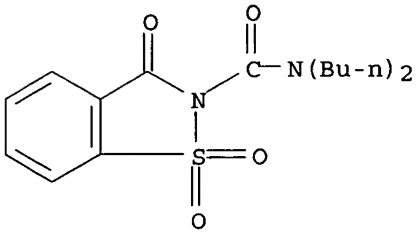
RN 35131-57-8 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dimethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 35131-58-9 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N,N-dipropyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



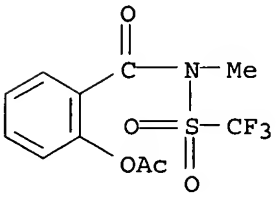
RN 35131-59-0 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dibutyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



L69 ANSWER 111 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1971:551529 CAPLUS
DOCUMENT NUMBER: 75:151529
TITLE: N,N-Disubstituted trifluoromethanesulfonamides
INVENTOR(S): Moore, George G. I.; Conway, Alvin C.
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3609187	A	19710928	US 1969-816090	19690414
PRIORITY APPLN. INFO.:			US 1969-816090 A	19690414

GI For diagram(s), see printed CA Issue.
AB N-Aroyl-N-alkyl- and N-aroyl-N-alkenyltrifluoromethanesulfonamides useful as longlasting anticonvulsant agents were prepared by treating N-alkyland N-alkenyl-trifluoromethanesulfonamides with aroyl halides or anhydrides. For example, 12.1 g Et3N was added to 16.4 g N-methyltrifluoromethanesulfonamide and 17.5 g 3-chlorobenzoyl chloride in 300 ml CH2Cl2 to give N-(3-chlorobenzoyl)-N-methyltrifluoromethanesulfonamide (I).
IT **34310-38-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 34310-38-8 CAPLUS
CN Salicylamide, N-methyl-N-[(trifluoromethyl)sulfonyl]-, acetate (ester) (8CI) (CA INDEX NAME)



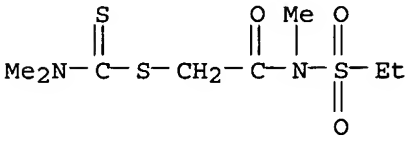
L69 ANSWER 112 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1971:63950 CAPLUS
DOCUMENT NUMBER: 74:63950
TITLE: Dithiocarbamates
INVENTOR(S): Konecny, Vaclav
SOURCE: Czech., 4 pp.
CODEN: CZXXA9
DOCUMENT TYPE: Patent
LANGUAGE: Czech
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 134155		19691115	CS	19680129

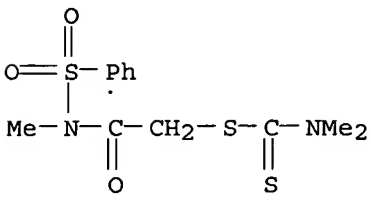
AB Title compds., R1R2NCS2CH(R3)(CH2)nCOR4, with insecticide, fungicide, and herbicide activity, are obtained by reaction of R1R2NH, CS2, and XCH(R3)(CH2)nCOR4 (X = Cl, Br). Thus, an aqueous solution of BrCH2CH2CO2Na was stirred with CS2, the mixture treated dropwise with aqueous Me2NH and heated at 65° to give Me2NCS2CH2CH2CO2Na. Similarly prepared were 10 addnl. products.

IT **30895-93-3P 30895-94-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 30895-93-3 CAPLUS
CN Carbamodithioic acid, dimethyl-, 2-[(ethylsulfonyl)methylamino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



RN 30895-94-4 CAPLUS
CN Carbamodithioic acid, dimethyl-, 2-[methyl(phenylsulfonyl)amino]-2-oxoethyl ester (9CI) (CA INDEX NAME)



L69 ANSWER 113 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1970:425448 CAPLUS
DOCUMENT NUMBER: 73:25448
TITLE: Fungicidal 2-(ar)alkylcarbamoylsaccharins
INVENTOR(S): Shioyama, Osamu; Mine, Seizo; Murata, Kikuzo
PATENT ASSIGNEE(S): Japan Agricultural Chemicals Co., Ltd.
SOURCE: Ger. Offen., 38 pp.
CODEN: GWXXBX

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1953422	A	19700514	DE 1969-1953422	19691023
DE 1953422	B2	19740801		
DE 1953422	C3	19750327		
JP 48040734	B4	19731203	JP 1968-77381	19681025
GB 1278111	A	19720614	GB 1969-1278111	19691021
US 3699228	A	19721017	US 1969-868236	19691021
PRIORITY APPLN. INFO.:			JP 1968-77381 A	19681025
			JP 1969-71023 A	19690909

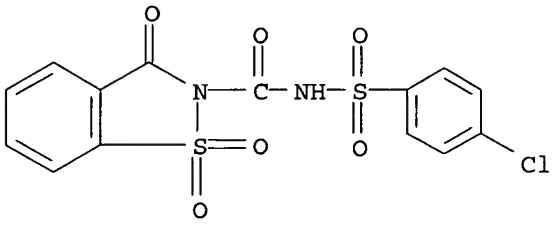
GI For diagram(s), see printed CA Issue.

AB The fungicidal title compds. (I) were prepared in 34.8-97.0% yield either by reaction of the corresponding saccharin with RNCO in the presence of Et3N or pyridine or by reaction of the Na salt of saccharin and COCl2 via the chlorocarbonyl derivative and subsequent reaction with the corresponding amines. Among the 68 compds. prepared were the following I (X, R, and R1 given): O, Me, H; O, Ph, H; O, CH2Ph, H; O, CHMePh, H; O, CH2Ph, 6-Cl; O, Bu, H; O, Pr, H; O, CH2C6H4Me-p, H; O, CH2CH2Ph, H; O, C6H4Me-p, H; O, Me, 5-MeO; S, CH2Ph, H. Compns. of fungicides containing I were reported. I had fungicidal activities especially against Piricularia oryzae, Cladosporium cucumerinum, and Colletotrichum langenarium.

IT **28946-22-7P 28946-23-8P 28946-24-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

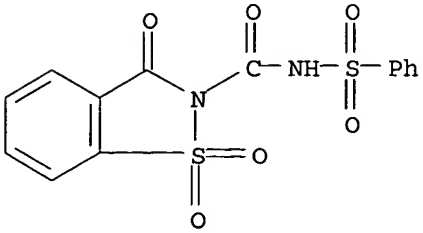
RN 28946-22-7 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

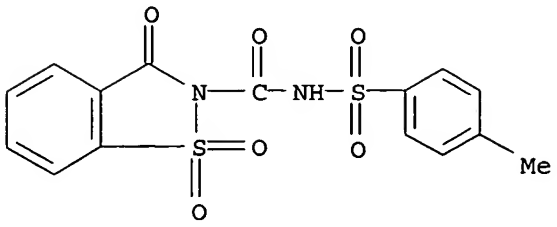


RN 28946-23-8 CAPLUS

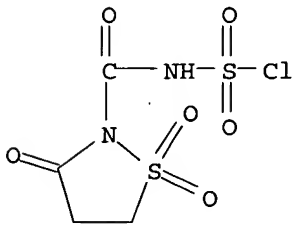
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 28946-24-9 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



L69 ANSWER 114 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1970:100575 CAPLUS
DOCUMENT NUMBER: 72:100575
TITLE: Radical-induced reactions of olefins with chlorosulfonylisocyanate
AUTHOR(S): Guenther, Dieter; Soldan, Fritz
CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/M.-Hoechst, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1970), 103(3), 663-9
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 72:100575
GI For diagram(s), see printed CA Issue.
AB Reaction of excess ClSO2NCO with RCH:CHR1 in the presence of free-radical producing peroxides gave 50-90% ClCHR1CHRSO2NCO [where R = H and R1 = H, Me, Et, or Bu; R = R1 = Me; or (R, R1 =) (CH2)4]. On the other hand, an excess of olefins in this reaction yielded 60-80% substituted N-(2-chloroethyl)-3-oxoisothiazolidine 1,1-dioxides (I). CH2:CHCl and excess ClSO2NCO gave a mixture of the telomers, Cl[CHClCH2]nSO2NCO (where n = 1, 2, or 3).
IT **26178-90-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 26178-90-5 CAPLUS
CN 2-Isothiazolidinecarboxamide, N-(chlorosulfonyl)-3-oxo-, 1,1-dioxide (8CI) (CA INDEX NAME)



L69 ANSWER 115 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1970:22825 CAPLUS
DOCUMENT NUMBER: 72:22825

TITLE: Surface film former to retard evaporation and extinguish hydrocarbon fires
INVENTOR(S): Francen, Vernon L.
PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.
SOURCE: Ger. Offen., 36 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

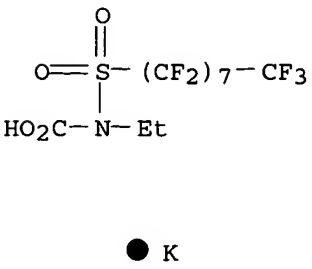
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1920625	A	19691106	DE 1969-1920625	19690418
DE 1920625	B2	19760909		
SE 365532	B	19740325	SE 1969-5001	19690409
NL 6906068	A	19691021	NL 1969-6068	19690418
NL 161679	B	19791015		
FR 2009827	A5	19700213	FR 1969-12138	19690418
GB 1264681	A	19720223	GB 1969-1264681	19690418
BR 6908211	A0	19730104	BR 1969-208211	19690418
JP 48023161	B4	19730711	JP 1969-29715	19690418

PRIORITY APPLN. INFO.: US 1968-722630 A 19680419

AB A H2O-soluble salt of a fluoroaliphatic wetting compound of the formula RfQmZ (in which Rf is a fluorinated, saturated, monovalent nonaromatic C3-20 radical in which the C atoms are substituted only by F, Cl, or H with ≤1 Cl or H atom on 2 C atoms and 1 O or N atom bound to a C atom may be present; Qm, m = 0-2, represents an alkylene-, arylene-, sulfonamidoalkylene-, or carboxamidoalkylene radical; and Z represents a H2O-soluble anionic, cationic, or nonionic radical) is combined with a slightly H2O-soluble hydrocarbon wetting agent which is >0.02% soluble in H2O at 25° and capable of promoting the film formation of a normally nonfilm-forming fluorohydrocarbon wetting compound in <60 sec., a partially hydrolyzed protein, and H2O. This mixture is used as a strong film-forming blockade for extinguishing hydrocarbon fires and evaporation of flammable gases. Thus, a concentration of 0.36% C8F17SO2N(C2H5)C2H4OPO(OH)2 plus 0.15% Pluronic P-94 formed a covering film in 45 sec. with no flashback. Data are given for various fluorohydrocarbons, wetting agents, stabilizers, and hydrolyzed proteins.

IT **27140-05-2**
RL: USES (Uses)
(fire extinguishing with wetting agents and)

RN 27140-05-2 CAPLUS
CN Carbamic acid, ethyl[(heptadecafluorooctyl)sulfonyl]-, potassium salt (8CI) (CA INDEX NAME)



● K

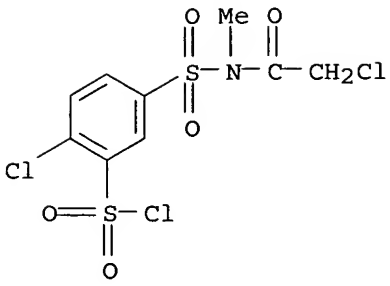
L69 ANSWER 116 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1969:512627 CAPLUS
DOCUMENT NUMBER: 71:112627
TITLE: N-Methyl-4-chloro-3-sulfamoylbenzenesulfonamides
PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.
SOURCE: Fr., 6 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1535781		19680809	FR	
DE 1568552			DE	
GB 1188158			GB	
US 3557153		19710000	US	
PRIORITY APPLN. INFO.:			DE	19660713

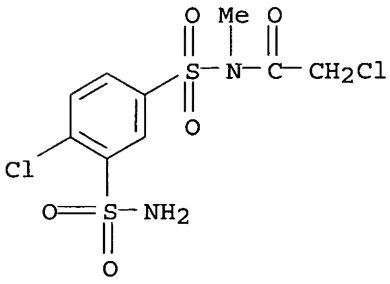
GI For diagram(s), see printed CA Issue.

AB N-Methyl-4-chloro-3-(chlorosulfonyl)benzenesulfonamide (I) is acylated to give II compds. which are treated with NH3 to give diamides III. A mixture of 30.4 g. I and 60 ml. Ac2O is heated 1 hr. at 80° to give 82% 1-chloro-2-chlorosulfonyl-4-(N-methyl-N-acetylsulfamoyl)-benzene (IV), m. 141-2°. A solution of 17.3 g. IV in 150 ml. tetrahydrofuran is treated with 20% NH3 at 15-20° and the mixture is worked up to give 80% 1-chloro-2-sulfamoyl-4-(N-methyl-N-acetylsulfamoyl)benzene, m. 200°. Similarly prepared are the following II and III (R, m.p. II compound, m.p. III compound, and % yield III compound given): CH2Cl, 148°, 173-4°, 55; Et, 119°, 172-3°, 60; Pr, 110-11°, 168-9°, 58; MeCH:CH, , 162-3°, 71; 2-furyl, 99-100°, 195°, 54; Ph, 172-3°, 227°, 78; cyclopentylmethyl, 85-96°, 95-6°, 69; PhCH:CH, 178-9°, 196-7°, 56; hexyl, 96-8°, 183-4°, ; iso-Pr, 124°, 165-6°, ; Bu, 98, 152-3°, ; iso-Bu, 122-3°, 180-1°, ; amyl, 104°, 156-7°, ; n-heptyl, 96-8°, 116-18°, ; PhCH2, 205-7°, 86-8°; -; PhCH2CH2, 132°, 133°, ; and the following compds. (m.p. given): 4,3-Cl(ClSO2)C6H3SO2NEtAc, 104°; 4,3-Cl(H2NSO2)-C6H3SO2NEtAc, 195-6°; 1-chloro-2-chlorosulfonyl-4-(N-tetrahydrofurfuryl-N-acetylsulfamoyl)benzene, 121°; 1-chloro-2-sulfamoyl- 4 - (N - tetrahydrofurfuryl- N - acetylsulfamoyl)benzene, 137-9°.

IT **24018-25-5P 24028-64-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 24018-25-5 CAPLUS
CN Benzenesulfonyl chloride, 2-chloro-5-[(chloroacetyl)methylsulfamoyl]-(8CI) (CA INDEX NAME)



RN 24028-64-6 CAPLUS
CN Acetamide, 2-chloro-N-[(4-chloro-3-sulfamoylphenyl)sulfonyl]-N-methyl- (8CI) (CA INDEX NAME)



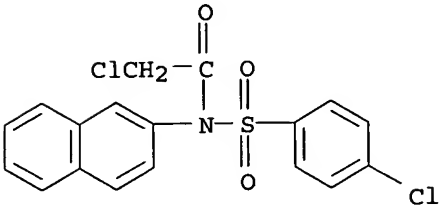
L69 ANSWER 117 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1969:76240 CAPLUS
DOCUMENT NUMBER: 70:76240
TITLE: Selective toxicity. IX. Relation between chemical structure and selective antimicrobial activities of haloacetamide derivatives
AUTHOR(S): Noguchi, Teruhisa; Hashimoto, Yoshinobu; Mori, Toshiro; Kano, Saburo
CORPORATE SOURCE: Nippon Soda Co., Ltd., Oisomachi, Japan
SOURCE: Yakugaku Zasshi (1968), 88(12), 1620-37
CODEN: YKKZAJ; ISSN: 0031-6903
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Antimicrobial activity was examined for ArNRCOCH2X where Ar was limited to the 2,4,5-substituted Ph or naphthyl group. The compds. showed stronger activity when X was F, Cl, Br, and I in that order and also showed antimicrobial activity of a wide spectrum. Compds. having electroneg. substituents in the 2-, 4-, and 5-positions showed a good activity, and (2,4,5-trichlorophenyl)monoiodoacetamide and (2,4,5-trichlorophenyl)monobromoacetamide were especially good, showing a broad spectrum and excellent therapeutic effect against exptl. trichophytosis in animals. All the compds. except those with F showed a low acute toxicity. The characteristic pharmacol. action included hypothermia and a slight sedative action. F-substituted compds. of this series are aconitase inhibitors of the TCA cycle, have a strong toxicity in mammals, and show central stimulation and inhibition of respiratory and circulatory organs.

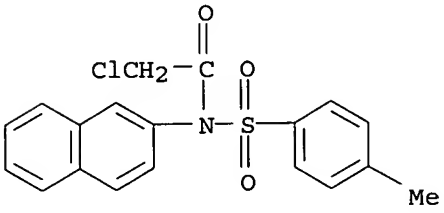
IT **23543-22-8 23543-23-9 23543-42-2 23543-43-3 23543-44-4 23554-64-5 23605-47-2 23627-22-7**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericidal activity of)

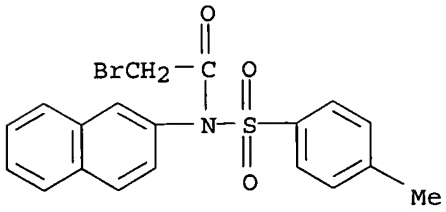
RN 23543-22-8 CAPLUS
CN Acetamide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-N-2-naphthyl- (8CI) (CA INDEX NAME)



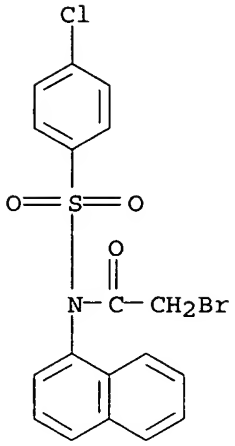
RN 23543-23-9 CAPLUS
CN Acetamide, 2-chloro-N-2-naphthyl-N-(p-tolylsulfonyl)- (8CI) (CA INDEX NAME)



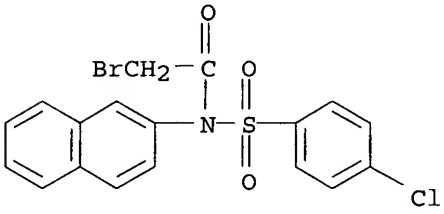
RN 23543-42-2 CAPLUS
CN Acetamide, 2-bromo-N-2-naphthyl-N-(p-tolylsulfonyl)- (8CI) (CA INDEX NAME)



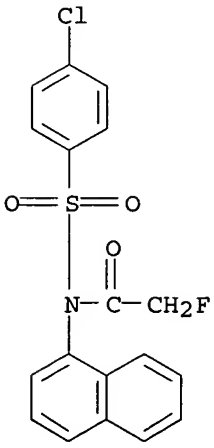
RN 23543-43-3 CAPLUS
CN Acetamide, 2-bromo-N-[(p-chlorophenyl)sulfonyl]-N-1-naphthyl- (8CI) (CA INDEX NAME)



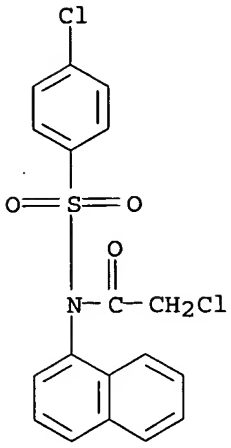
RN 23543-44-4 CAPLUS
CN Acetamide, 2-bromo-N-[(p-chlorophenyl)sulfonyl]-N-2-naphthyl- (8CI) (CA INDEX NAME)



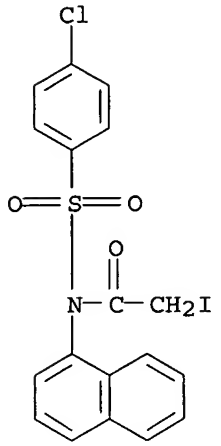
RN 23554-64-5 CAPLUS
CN Acetamide, N-[(p-chlorophenyl)sulfonyl]-2-fluoro-N-1-naphthyl- (8CI) (CA INDEX NAME)



RN 23605-47-2 CAPLUS
CN Acetamide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-N-1-naphthyl- (8CI) (CA INDEX NAME)



RN 23627-22-7 CAPLUS
CN Acetamide, N-[(p-chlorophenyl)sulfonyl]-2-iodo-N-1-naphthyl- (8CI) (CA INDEX NAME)

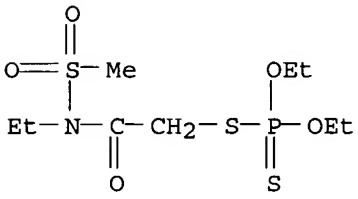


L69 ANSWER 118 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1969:57061 CAPLUS
DOCUMENT NUMBER: 70:57061
TITLE: Alkylation of dialkyldithiophosphoric acid salts
AUTHOR(S): Itskova, A. L.; Soifer, R. S.; Mandel'baum, Ya. A.; Mel'nikov, N. N.
CORPORATE SOURCE: Vses. Nauch.-Issled. Inst. Khim. Sredstv Zashch. Rast., Moscow, USSR
SOURCE: Zhurnal Obshchei Khimii (1968), 38(11), 2556-61
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Refluxing 5.7 g. (EtO)2PS2K and 5 g. ClCH2CONEtSO2Me (I) in C6H6 5 hrs. gave 74.3% (EtO)2PS2CH2CONRSO2R1 (R = Et, R2 = Me), d20 1.2710, n20D 1.5170. Similarly were prepared 60-75% yields of analogs (R and R1 shown,

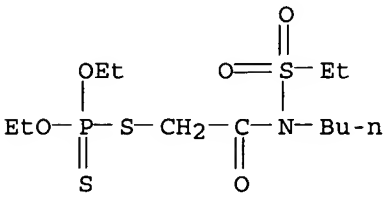
resp.): Me, Me, 1.3261, 1.5315; H, Et, m. 55-7°; Bu, Et, 1.1926, 1.5050; H, C6H3Cl2-3,4 m. 53-4°. Also prepared was (EtO)2PS2CH2COR2 (R2 = tetrahydro-1-quinolyl, 1.2424, 1.5835. Refluxing 7.7 g. (MeO)2PS2Na with 5 g. I in Me2CO 5 hrs. gave after separation on a chromatographic column (no details) 44.7% (MeO)2PS2CH2CONEtSO2Me, 1.3581, 1.5340, and 19.4% MeO(MeS)P(O)SCH2CONEtSO2Me, 1.3654, 1.5385, as well as some (MeO)2(MeS)PS and (MeS)2(MeO)PS. Similar reaction of (MeO)2PS2K and tetrahydroquinolide of chloroacetic acid gave 45.5% (MeO)2PS2CH2CONC9H10, 1.2965, 1.5980, and 22.1% (MeO)(MeS)P(O)SCH2CONC9H10, 1.2763, 1.5860. Reaction of 4 g. (MeO)(MeS)POSK with 4 g. I in Me2CO gave in 5 hrs. some (MeS)2(MeO)PS and 19.4% (MeO)(MeS)P(O)SCH2CONEtSO2Me, 1.3654, 1.5385. Refluxing 16 g. (MeO)(MeS)POSK and 14 g. (MeO)2(MeS)PS in Me2CO 12 hrs. gave 24.3% (MeS)2(MeO)PS, b0.05 60-2°, 1.2506, 1.5340. To 17.1 g. (MeO)2PS2K was slowly added 15 g. (MeO)2(MeS)PS in Me2CO and the mixture refluxed 4 hrs. to give 94.6% MeO(MeS)POSK, m. 110-12° (Et2O). Similarly in 20 hrs. MeO(MeS)POSK and (MeS)2(MeO)PS gave 21.8% (MeS)2PO2K, did not m. 250°. Ir spectra were reported. The results are explained by multistep alkylation of the phosphorodithioates.

IT **22608-14-6P 22608-15-7P 22608-51-1P 22608-52-2P 22726-07-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

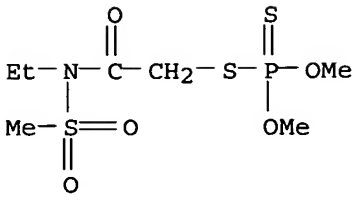
RN 22608-14-6 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[ethyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



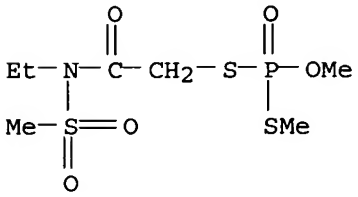
RN 22608-15-7 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl ester, S-ester with N-butyl-N-(ethylsulfonyl)-2-mercaptoacetamide (8CI) (CA INDEX NAME)



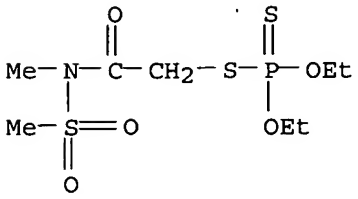
RN 22608-51-1 CAPLUS
CN Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-ethyl-2-mercapto-N-(methylsulfonyl)acetamide (8CI) (CA INDEX NAME)



RN 22608-52-2 CAPLUS
CN Phosphorodithioic acid, O,S-dimethyl ester, S-ester with N-ethyl-2-mercapto-N-(methylsulfonyl)acetamide (8CI) (CA INDEX NAME)



RN 22726-07-4 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



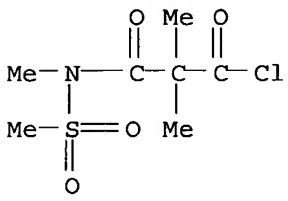
L69 ANSWER 119 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1966:473470 CAPLUS
DOCUMENT NUMBER: 65:73470
ORIGINAL REFERENCE NO.: 65:13700e-f
TITLE: Ketenes. X. Heterocyclic systems derived from dimethyl-malonyl chloride
AUTHOR(S): Martin, James C.; Brannock, Kent C.; Meen, Ronald H.
CORPORATE SOURCE: Res. Labs., Eastman Kodak Co., Kingsport, TN
SOURCE: Journal of Organic Chemistry (1966), 31(9), 2966-72
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 65:73470
AB cf, CA 65, 3759f. Dimethylmalonyl chloride reacted with a number of N-monosubstituted amides to afford dihydro-2-methylene-4H-1,3-oxazine-4,6(5H)-diones and with N-monosubstituted thioamides and N,N'-odisubstituted amidines to give the corresponding thiazine and pyrimidine analogs. Several reactions producing these heterocycles were described. The dihydro-2-methylene-4H-1,3-oxazine-4,6(5H)-diones rearranged to 3-oxoglutarimides if the methylene group was substituted with one or two groups other than hydrogen. The reaction of

dimethylmalonyl chloride with aromatic amides unsubstituted on the nitrogen gave 4H-1,3-oxazine-4,6(5H)-diones. A similar reaction with aliphatic amides unsubstituted on the nitrogen gave dihydro-2-methylene-4H-1,3-oxazine-4,6(5H)-diones; however, if triethylamine was used as an acid acceptor, dihydro-3-isobutyryl-2-methylene-4H-1,3-oxazine-1,3-oxazine-4,6(5H)-diones resulted. Imines having at least one α-methylene group and dimethylmalonyl chloride gave substituted 2,4(1H,3H)-pyridinediones.

IT **10104-16-2**, Malonamoyl chloride, N,2,2-trimethyl-N-(methylsulfonyl)-
(preparation of)

RN 10104-16-2 CAPLUS

CN Malonamoyl chloride, N,2,2-trimethyl-N-(methylsulfonyl)- (7CI, 8CI) (CA INDEX NAME)



L69 ANSWER 120 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1964:3301 CAPLUS

DOCUMENT NUMBER: 60:3301

ORIGINAL REFERENCE NO.: 60:557b-c

TITLE: Esters of mono- or dithiophosphoric, phosphonic, and phosphinic acids

INVENTOR(S): Schrader, Gerhard

PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.

SOURCE: 3 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

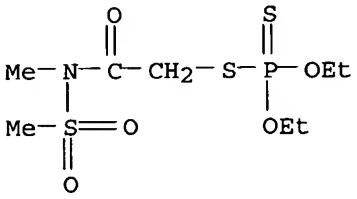
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1152407		19630808	DE	19610614

AB To a stirred solution of 79 g. O,O-dimethyldithiophosphoric acid and 65 g. K2CO3 in 300 ml. MeCN at 40° is added 93 g. ClCH2CONMeSO2Me in 100 ml. MeCN, the mixture stirred 2 hrs. at 60°, poured into 400 ml. ice water, and the separated oil extracted with 300 ml. C6H6 and dried in vacuo at 60° to leave 63% RR1P(X)SCH2CONMeSO2Me (I) (R = R1 = MeO, X = S). Similarly were prepared the following I (R, R1, X, and % yield given): MeO, MeO, O, 93; EtO, EtO, S, 81; EtO, EtO, O, 70; Me, EtO, S, 59; Et, EtO, S, 63; Me, Me, S, 58 (m. 105°).

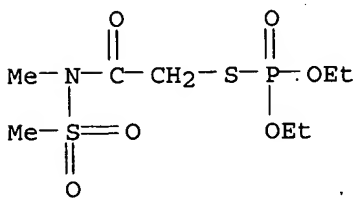
IT **22726-07-4**, Phosphorodithioic acid, O,O-diethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide **38995-02-7**, Phosphorothioic acid, O,O-diethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide **89909-90-0**, Phosphorodithioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide **89909-92-2**, Phosphorothioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide **90221-41-3**, Phosphonodithioic acid,

methyl-, O-ethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide **90482-75-0**, Phosphonodithioic acid, ethyl-, O-ethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide
(preparation of)

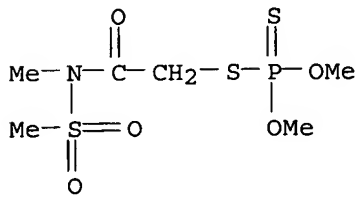
RN 22726-07-4 CAPLUS
CN Phosphorodithioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



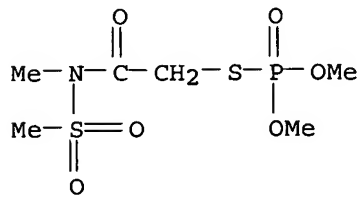
RN 38995-02-7 CAPLUS
CN Phosphorothioic acid, O,O-diethyl S-[2-[methyl(methylsulfonyl)amino]-2-oxoethyl] ester (9CI) (CA INDEX NAME)



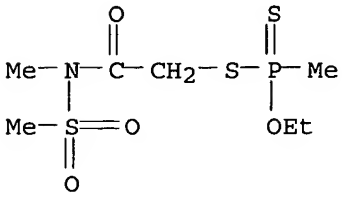
RN 89909-90-0 CAPLUS
CN Phosphorodithioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)



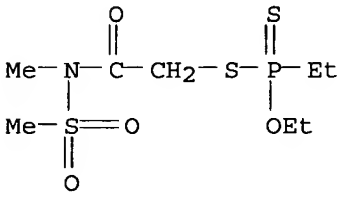
RN 89909-92-2 CAPLUS
CN Phosphorothioic acid, O,O-dimethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)



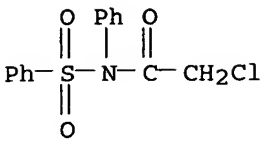
RN 90221-41-3 CAPLUS
CN Phosphonodithioic acid, methyl-, O-ethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)



RN 90482-75-0 CAPLUS
CN Phosphonodithioic acid, ethyl-, O-ethyl ester, S-ester with 2-mercapto-N-methyl-N-(methylsulfonyl)acetamide (7CI) (CA INDEX NAME)

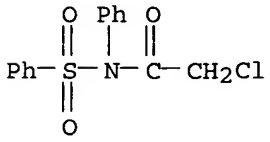


L69 ANSWER 121 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1963:448038 CAPLUS
DOCUMENT NUMBER: 59:48038
ORIGINAL REFERENCE NO.: 59:8637b-c
TITLE: Sulfanilidides. N-Chloroacetyl derivatives of benzenesulfanisidides, benzenesulfophenetidides, and benzenesulfotoluidides
AUTHOR(S): Malinovskii, M. S.; Solomko, Z. F.; Glushko, L. P.
SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1963), 29(6), 614-15
CODEN: UKZHAU; ISSN: 0041-6045
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB XC6H4SO2NNaC6H4Y and ClCH2COCl form the following I, potential fungicides (X, Y, and m.p. given): H, p-Me, 132.5-3°; H, o-MeO, 134-4.5°; H, o-Me, 128.5-9°; p-Me, p-MeO, 130-1°; p-Me, p-EtO, 114.5-15°; p-Cl, p-Me, 134.5-5°; p-Cl, p-EtO, 127.5-8.5°; p-Cl, o-MeO, 126-7°; p-Br, p-EtO, 134-5°; H, p-Br, 163.5-4.5°.
IT **72310-04-4**, Acetanilide, 2-chloro-N-(phenylsulfonyl)- (derivs.)
RN 72310-04-4 CAPLUS
CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

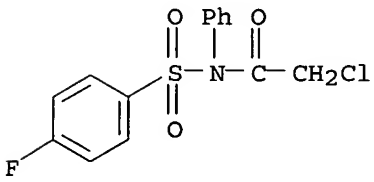


L69 ANSWER 122 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1963:448037 CAPLUS
DOCUMENT NUMBER: 59:48037
ORIGINAL REFERENCE NO.: 59:8636f-h,8637a-b
TITLE: 2-Bromo-4-methylphenyl alkyl and aryl sulfides and sulfones
AUTHOR(S): Dandegaonker, S. H.; Rangaswamy, J. R.
CORPORATE SOURCE: Karnatak Univ., Dharwar, India
SOURCE: Journal of the Karnatak University (1962), 6, 19-24
CODEN: JKAUAR; ISSN: 0453-3348
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB 2,4-BrMeC6H3SH (I) was prepared and its alkyl and aryl sulfide derivs. by treating the alkyl or aryl halide with the Na salt of I. The sulfides were then oxidized to the corresponding sulfones with H2O2 in HOAc. 2,4-BrMeC6H3NH2 (18 g.) was suspended in 30 mL. water, 30 mL. concentrated HCl, and 7 g. NaNO2 in 25 mL. water, and the clear diazonium solution added in small portions with vigorous stirring to 30 g. K Et xanthate in 70 mL. water heated at 70-80°. Stirring was continued for an addnl. 2 h., a heavy red oil settled to the bottom, and the clear aqueous upper layer extracted with ether. The exts. were dried over anhydrous Na2SO4, the solvent removed, the residue added to the oil, and then 100 mL. alc., 12 g. KOH, and 2 g. glucose added and the mixture refluxed on a water bath for 7 h. The alc. was distilled, the residue cooled, treated with 5 mL. H2SO4 (23%) and 20 g. Zn dust, the mixture heated on a water bath for 0.5 h., and then refluxed with 100 mL. C6H6 for 1 h. The C6H6 layer was separated, dried over anhydrous Na2SO4, the solvent removed, and the residue distilled to give 18 g. (90%) I, b6 107-8°, n25D 1.6148. I (3.0 g.) was added with vigorous shaking to NaOEt (prepared from 0.8 g. Na and 10 mL. absolute EtOH). The alkyl or aryl halide (1 mol) was added with stirring to the Na thiophenolate, the mixture refluxed for 3 h., the mixture made alkaline with 10% aqueous KOH, and then diluted with H2O. Liquid sulfides were isolated by ether extraction, and solid sulfides isolated by filtration. The sulfide (1.0 g.) was dissolved in glacial HOAc, 20 mL. H2O2 (30%) added, the mixture heated on a water bath for 3 h., cooled and diluted with water. The solid sulfones were filtered off and recrystd. and the liquid sulfones extracted with ether. Sulfides (II) and corresponding sulfones were prepared (R, % yield, m.p. or b.p., n25D % yield sulfone derivative, m.p. or b.p., and n27D given): Me, 67, 124-5°/8, 1.6120, 72, 96°, -; Et, 89, 132-3°/2, 1.5985, 45, 185-6°/7, 1.5845; Pr, 68, 139-40°/2, 1.5881, 54, 200°/7, 1.5770; Bu, 83, 154-5°/3, 1.5722, 55, 210-11°/7, 1.5620; amyl, 75, 163-4°/3, 1.5469, 36, 220-1°/7, 1.5230; HOCH2CH2, 57, 185-6°/3, 1.6044, 36, 215-16°/7, 1.5715; p-O2NC6H4, 64, 175°, -, 72, 146°, -; PhCH2, 67, 195-7°/6 mm., 1.6265, 82, 286°, -.
IT **72310-04-4**, Acetanilide, 2-chloro-N-(phenylsulfonyl)- (derivs.)

RN 72310-04-4 CAPLUS
CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)

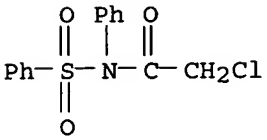


L69 ANSWER 123 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1963:66215 CAPLUS
DOCUMENT NUMBER: 58:66215
ORIGINAL REFERENCE NO.: 58:11253g-h
TITLE: Sulfanilides. V. N-Chloroacetyl derivatives of sulfanilides
AUTHOR(S): Malinovskii, M. S.; Solomko, Z. F.; Glushko, L. P.
CORPORATE SOURCE: State Univ., Dnepropetrovsk
SOURCE: Zhurnal Obshchei Khimii (1962), 32, 3195-7
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 58:66215
AB cf. CA 58, 5567c. ClCH2COCl added over 1 hr. to RSO2NHR' (in the form of Na salt) in C6H6 gave after 1-1.5 hrs. at 40-50° the following RSO2NR'COCH2Cl (R and R' shown, resp.): Me, Ph, m. 111-12.5°; iso-Pr, Ph, m. 153-4°; Ph, Ph, m. 113-13.5°; p-MeC6H4, Ph, m. 138-8.5°; o-MeC6H4, Ph, m. 120-20.5°; p-FC6H4, Ph, m. 138.5-9.5°; p-ClC6H4, Ph, m. 137-8°; p-BrC6H4, Ph, m. 128-8.5°; p-IC6H4, Ph, m. 151-2°; p-O2NC6H4, Ph, m. 180-1.5°; m-O2NC6H4, Ph, m. 172-3°. Heating with 5% NaOH at 50° converted these, within 20 min., to the original sulfonamides.
IT **2805-90-5**, Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]-
72310-04-4, Acetanilide, 2-chloro-N-(phenylsulfonyl)-
72310-14-6, Acetanilide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-
72310-18-0, Acetanilide, 2-chloro-N-(p-tolylsulfonyl)-
72310-22-6, Acetanilide, 2-chloro-N-(methylsulfonyl)-
91131-55-4, Acetanilide, 2-chloro-N-(isopropylsulfonyl)-
92152-34-6, Acetanilide, N-[(p-bromophenyl)sulfonyl]-2-chloro-
93309-14-9, Acetanilide, 2-chloro-N-[(p-iodophenyl)sulfonyl]-
93944-78-6, Acetanilide, 2-chloro-N-(o-tolylsulfonyl)-
(preparation of)
RN 2805-90-5 CAPLUS
CN Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]- (7CI, 8CI) (CA INDEX NAME)

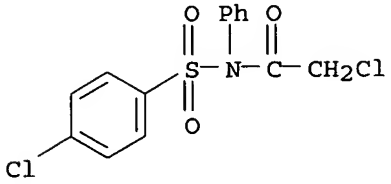


RN 72310-04-4 CAPLUS

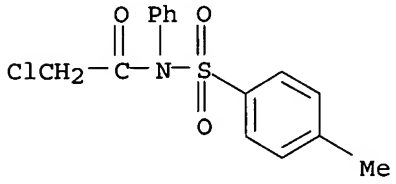
CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



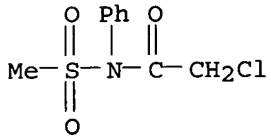
RN 72310-14-6 CAPLUS
CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



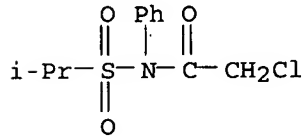
RN 72310-18-0 CAPLUS
CN Acetamide, 2-chloro-N-[(4-methylphenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



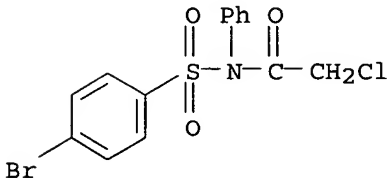
RN 72310-22-6 CAPLUS
CN Acetamide, 2-chloro-N-(methylsulfonyl)-N-phenyl- (9CI) (CA INDEX NAME)



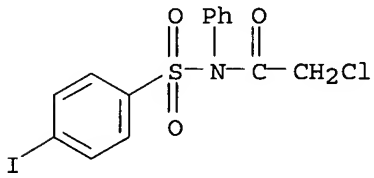
RN 91131-55-4 CAPLUS
CN Acetanilide, 2-chloro-N-(isopropylsulfonyl)- (7CI) (CA INDEX NAME)



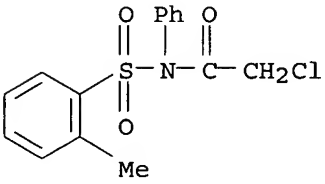
RN 92152-34-6 CAPLUS
CN Acetanilide, N-[(p-bromophenyl)sulfonyl]-2-chloro- (7CI) (CA INDEX NAME)



RN 93309-14-9 CAPLUS
CN Acetanilide, 2-chloro-N-[(p-iodophenyl)sulfonyl]- (7CI) (CA INDEX NAME)



RN 93944-78-6 CAPLUS
CN Acetanilide, 2-chloro-N-(o-tolylsulfonyl)- (7CI) (CA INDEX NAME)



L69 ANSWER 124 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1963:66214 CAPLUS
DOCUMENT NUMBER: 58:66214
ORIGINAL REFERENCE NO.: 58:11253e-g
TITLE: Convenient synthetic technique to oxidize mercaptans to disulfides
AUTHOR(S): Wallece, T. J.; Bartok, W.; Schrieshiem, A.
CORPORATE SOURCE: Esso Res. & Eng. Co., Linden, NJ
SOURCE: Journal of Chemical Education (1963), 40(No. 1), 39
CODEN: JCEDA8; ISSN: 0021-9584
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

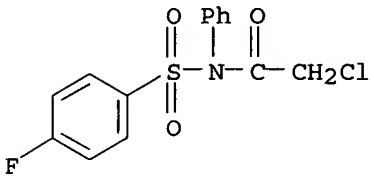
AB Disulfides are prepared in good yields by the oxidation of mercaptans with O in the presence of a base. The mercaptan (0.1 mole) is placed in a reaction flask containing a basic solution and a Teflon-covered stirrer, flushed with dry N, attached to an apparatus capable of delivering dry O, the N displaced with O, and the mixture stirred 1.5-23 hrs. The basic reaction medium may be 2M aqueous NaOH or 2M MeOH-MeONa. The O consumption dets. the extent of reaction. Co phthalocyanine has been used as a catalyst in the reaction

of BuSH and O in aqueous NaOH. The following compds. have been oxidized (compound, solvent, % yield of disulfide, reaction time in hrs. given): BuSH, H2O, 79, 11.5; BuSH, H2O (and Co phthalocyanine), 61, 1.5; EtMeCHSH, H2O, 83, 20.0; PhSH, H2O, 67, 23.0; BuSH, MeOH, 85, 7.0; EtMeCHSH, MeOH, 77, 11.0; PhCH2SH, MeOH, 84, 2.5.

IT **2805-90-5**, Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]-
72310-04-4, Acetanilide, 2-chloro-N-(phenylsulfonyl)-
72310-14-6, Acetanilide, 2-chloro-N-[(p-chlorophenyl)sulfonyl]-
72310-18-0, Acetanilide, 2-chloro-N-(p-tolylsulfonyl)-
72310-22-6, Acetanilide, 2-chloro-N-(methylsulfonyl)-
91131-55-4, Acetanilide, 2-chloro-N-(isopropylsulfonyl)-
93944-78-6, Acetanilide, 2-chloro-N-(o-tolylsulfonyl)-
(preparation of)

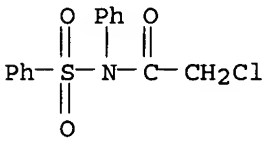
RN 2805-90-5 CAPLUS

CN Acetanilide, 2-chloro-N-[(p-fluorophenyl)sulfonyl]- (7CI, 8CI) (CA INDEX NAME)



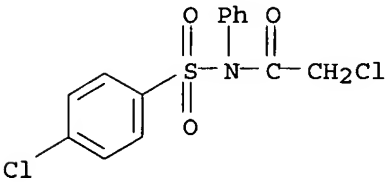
RN 72310-04-4 CAPLUS

CN Acetamide, 2-chloro-N-phenyl-N-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



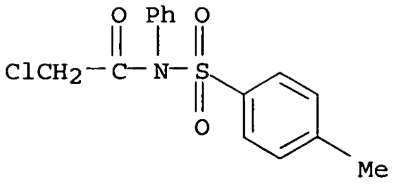
RN 72310-14-6 CAPLUS

CN Acetamide, 2-chloro-N-[(4-chlorophenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)

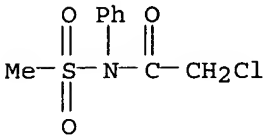


RN 72310-18-0 CAPLUS

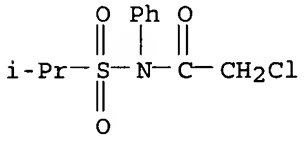
CN Acetamide, 2-chloro-N-[(4-methylphenyl)sulfonyl]-N-phenyl- (9CI) (CA INDEX NAME)



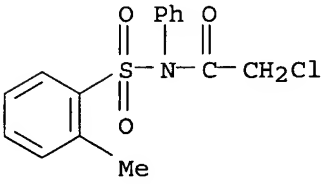
RN 72310-22-6 CAPLUS
CN Acetamide, 2-chloro-N-(methylsulfonyl)-N-phenyl- (9CI) (CA INDEX NAME)



RN 91131-55-4 CAPLUS
CN Acetanilide, 2-chloro-N-(isopropylsulfonyl)- (7CI) (CA INDEX NAME)



RN 93944-78-6 CAPLUS
CN Acetanilide, 2-chloro-N-(o-tolylsulfonyl)- (7CI) (CA INDEX NAME)



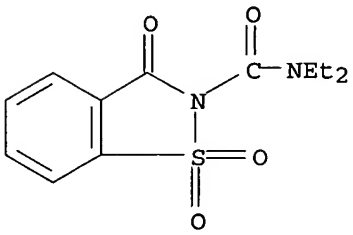
L69 ANSWER 125 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1962:41812 CAPLUS
DOCUMENT NUMBER: 56:41812
ORIGINAL REFERENCE NO.: 56:7937i,7938a-b
TITLE: Correlation of chemical structure and taste in the saccharin series
AUTHOR(S): Hamor, Glenn H.
CORPORATE SOURCE: Univ. of S. California, Los Angeles
SOURCE: Science (Washington, DC, United States) (1961), 134, 1416-17
CODEN: SCIEAS; ISSN: 0036-8075
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB With approx. 80 saccharin derivs. substitution in the number 2 or 3 position

gave tasteless compds. Replacement of the imide H by another chemical group gave, in almost every case, a tasteless compound Both sweet and bitter substances were made tasteless by substitution in the 2 position. Isomerization of the lactam to the lactim form may be necessary for sweet (and bitter) taste. Substitution in the benzene ring of saccharin with the electron-withdrawing nitro group gives a bitter substance. Substitution with an electron-donating group results in a sweet taste. Doubling the saccharin mol. results in a lack of taste. Many saccharin derivs., including saccharin itself, have a bitter taste or a bitter aftertaste. Resonance may play a part in taste.

IT **5443-42-5**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide
(taste of)

RN 5443-42-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



L69 ANSWER 126 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1962:18996 CAPLUS

DOCUMENT NUMBER: 56:18996

ORIGINAL REFERENCE NO.: 56:3643h-i

TITLE: Fluorine-containing acrylamides and their polymers

INVENTOR(S): Brown, Harvey A.

PATENT ASSIGNEE(S): Minnesota Mining and Manufacturing Co.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

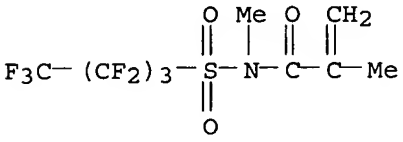
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2995542		19570520	US	
GB 888311			GB	

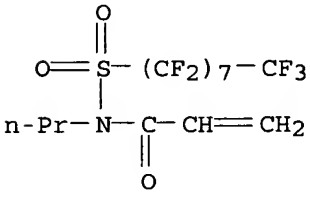
AB The reaction of 62.6 g. C4F9SO2NHMe (from C4F9SO2F and MeNH2) and 20.2 g. CH2:CHCOCl (I) in 150 ml. Et2O and 20.2 g. Et3N gave 55.4 g. C4F9SO2N(Me)COCH:CH2, b0.3 45-59°, n25D 1.3770. imilarly prepared were C4F9SO2N(Me)COC(Me)H: CH2, b0.5 52-62°, C8F17SO3NHCOCH: CH2, m. 100-18°, and C8F17SO2N(Pr)COCH:CH2. Addition of 46 g. Na to 100 g. C8F17NHMe in 250 ml. MeOH, evaporation of the solvent, and addition of 30 ml. I in 150 ml C6H6 gave 70 g. C8F17SO2N(Me)COCH:CH2 (II), m. 52-4°. Similarly prepared was C8F17SO2N(Et)COCH:CH2 (III), b0.5 80-6°, m. 38--40°. Heating 8 g. II with 0.04 g. Ac2O2 at 60° for 15 min. gave 41% polymer (IV) precipitated from xylene hexafluoride in MeOH. IV was brittle up to 65°, softened at 65-80°, was rubbery above 80°, and decomposed at 160°. It imparts excellent stain resistance to fabrics, as do emulsion polymers of III.

IT **678-52-4**, Acrylamide, N,2-dimethyl-N-[(nonafluorobutyl)sulfonyl]-
684-38-8, Acrylamide, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl-
865-93-0, Acrylamide, N-[(heptadecafluorooctyl)sulfonyl]-N-methyl-
1869-69-8, Acrylamide, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-
3827-95-0, Acrylamide, N-methyl-N-[(nonafluorobutyl)sulfonyl]-
(polymerization of)

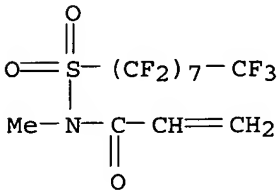
RN 678-52-4 CAPLUS
CN 2-Propenamide, N,2-dimethyl-N-[(nonafluorobutyl)sulfonyl]- (9CI) (CA INDEX NAME)



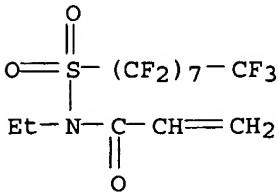
RN 684-38-8 CAPLUS
CN 2-Propenamide, N-[(heptadecafluorooctyl)sulfonyl]-N-propyl- (9CI) (CA INDEX NAME)



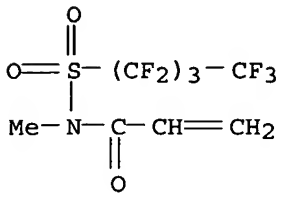
RN 865-93-0 CAPLUS
CN Acrylamide, N-[(heptadecafluorooctyl)sulfonyl]-N-methyl- (7CI, 8CI) (CA INDEX NAME)



RN 1869-69-8 CAPLUS
CN Acrylamide, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]- (7CI, 8CI) (CA INDEX NAME)



RN 3827-95-0 CAPLUS
CN Acrylamide, N-methyl-N-[(nonafluorobutyl)sulfonyl]- (7CI, 8CI) (CA INDEX NAME)



L69 ANSWER 127 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1961:143656 CAPLUS
DOCUMENT NUMBER: 55:143656
ORIGINAL REFERENCE NO.: 55:27107a-i,27108a-f
TITLE: Amino acids and peptides. XXXI. Products formed from tosylglycine under the conditions of a mixed carbonic anhydride synthesis
AUTHOR(S): Zaoral, M.; Rudinger, J.
CORPORATE SOURCE: Ceskoslov. akad. ved, Prague
SOURCE: Collection of Czechoslovak Chemical Communications (1961), 26, 2316-32
CODEN: CCCCAK; ISSN: 0010-0765
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 55:143656

AB cf. ibid. 25, 3338(1960); CA 54, 24420h. [Tosyl or Ts means p-MeC6H4SO2 throughout this abstract] TsNHCH2CONTsCH2CO2H (I), m. 174-5° (aqueous EtOH) [pyridine salt (II), C18H20N2O7S2.0.25C5H5N, m. 136-8° (EtOH); N-ethylpiperidine (III) salt m. about 150° (decomposition) (darkening from 140°); Me ester m. 131-2° (MeOAc-petr. ether); anilide (IV) m. 214-15° (AcOH)], was isolated as the product of several reactions expected to lead to (TsNHCH2CO)2O (V). The compound of Swan (CA 47, 9274d), was probably also I and not V. I and V could be related by a mobile equilibrium. 3-Tosyloxazolidine-2,5-dione (VI), m. 190° (dioxane) (decomposition)(sintering and darkening from 170°), could serve as an intermediate in the peptide synthesis. Treating at -3° 2.43 g. TsNMeCH2CO2H (VII) and 1.4 ml. III in 20 ml. CHCl3 with 1.4 ml. sec-BuOCOCl in 3 ml. CHCl3, keeping the mixture 5 min. at 0°, adding 0.9 ml. PhNH2, keeping the mixture 30 min. at room temperature, evaporating in vacuo, treating the residue with 25 ml. H2O and 50 ml. EtOAc, and working up gave 2.55 g. VII anilide, m. 156-7° (aqueous EtOH). Similarly, 2.29 g. TsNHCO2H (VIII) gave 0.05 g. VIII anilide (IX), m. 164-5° (aqueous EtOH), 1.74 g. sec-BuOCONHPh (X), m. 64-5° (petr. ether), and 1.74 g. recovered VIII. Treating at -2° 2.29 g. VIII and 1.4 ml. III in 10 ml. CHCl3 with 1.4 ml. sec-BuOCOCl, keeping the mixture 5 min. at 0°, diluting with 150 ml. chilled (-5°) petr. ether with agitation, and after 5 min. at 0° treating sop. both layers (dissolved in CHCl3) with PhNH2 gave 1.8 g. X and 1.38 g. recovered VIII, resp. If C5H5N was used instead of III in the above experiment, the pert. ether layer gave 5% X, whereas the oily layer (dissolved in CHCl3) yielded 26% I, 8% IV, 20% IX, 15.5% X, and 4% 1,4-ditosylpiperazine-2,5-dione (XI), m. 295-60° (aqueous C5H5N) (Kofler block). Treating the mixed anhydride (from 11.45 g. VIII, 6.9 ml. sec-BuOCOCl, 4.9 ml. C5H5N,

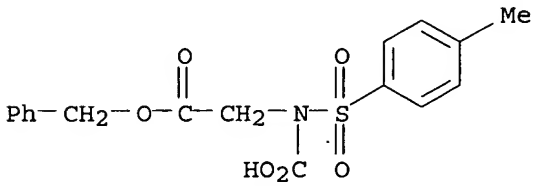
and 50 ml. CHCl3 at -3° as usual) with 4.6 ml. PhNH2 and working up gave 4% recovered VIII, 1% VIII PhNH2 salt, 16% IX, 15% I, 22% IV, 0.1% sec-BuOCONTsCH2CO2H (XII), m. 104-5° (CCl4-petr. ether), 0.1% XII anilide, m. 137-9° (EtOAc-petr. ether), 19% XI, 10% (based on PhNH2 added) X, and 25% PhNH3Cl. Treating at -5 to 0° 2.29 g. VIII, 15 ml. CHCl3, and 0.95 ml. C5H5N with TsNHCHH2COCl (XIII), keeping the mixture at room temperature overnight, evaporating in vacuo, and triturating the gummy residue with 20 ml. 2% aqueous NaHCO3 gave II, obtained also by treating 0.44 g. I in 3 ml. iso-PrOH with 0.09 ml. C5H5N. Treating 4 g. crude II in H2O and EtOAc with 1 ml. concentrated aqueous HCl, filtering, washing the EtOAc layer with dilute aqueous HCl, extracting with 5.% aqueous NaHCO3 in 3 portions, and acidifying the filtered extract gave 2.83 g. I, m. 174-5° (aqueous EtOH). Stirring vigorously 2 g. XIII, 2.7 g. TsNHCH2CO2Ag, and 25 ml. CHCl3 3 hrs. at room temperature, filtering, evaporating the filtrate in vacuo, dissolving the residue in 1 ml. Me2CO, and precipitating with 20 ml. C6H6 gave after 12 hrs. at 0° 0.4 g. I, m. 163-4° (aqueous EtOH), unchanged on further crystallization The infrared spectra of I, m. 163-4°, and I, m. 174-5°, were identical. Treating portionwise at -5 to 0° 27.5 g. TsNHCH2CO2CH2Ph (XlV), 23.8 ml. III, and 50 ml. CHCl3 with 23.8 ml. sec-BuOCOCl in 23.8 ml. CHCl3, keeping the mixture several hours at room temperature, evaporating, dissolving the residue in H2O and EtOAc, washing the EtOAc layer with 10% aqueous HCl and 5% aqueous NaHCO3, drying (Na2SO4), and evaporating gave 23.7 g. XII PhCH2 ester (XV), m. 55-6° (sintering from 50°). Hydrogenating 4.19 g. XV in 10 ml. AcOH over 0.4 g. prereduced PtO2 at room temperature atmospheric, evaporating the filtrate, dissolving the residue in 100 ml. 5% aqueous NaHCO3, washing the solution with Et2O, acidifying, extracting with Et2O, and evaporating the dried extract gave 2.4 g. XII. Treating at 0° 2.29 g. VIII, 1.84 ml. III, and 20 ml. CHCl3 with 0.72 ml. AcCl and after 10 min. 0.94 ml. PhNH2, keeping the mixture at room temperature 30 min., evaporating in vacuo, treating the residue with H2O and EtOAc, extracting the EtOAc layer with 5% aqueous NaHCO3, and acidifying the extract gave 0.9 g. VIII N-Ac derivative (XVI), m. 152-3° [XVI Me ester (prepared with CH2N2) m. 86-7° (aqueous MeOH or C6H6-petr. ether)]. Treating at -5 to 0° 27.5 g. XIV, 23.8 ml. III, and 100 ml. CHCl3 with 13.5 g. AcCl in 30 ml. CHCl3, keeping the mixture 1 hr. at room temperature, evaporating in vacuo, and working up the residue as in the case of XV gave 18.8 g. XVI PhCH2 ester (XVII), m. 67-7.5° (aqueous EtOH). Hydrogenating 3.6 g. XVII in 10 ml. AcOH over 0.5 g. PtO2 at room temperature (1 atmospheric), evaporating the filtered solution in vacuo, and triturating the residue with petr. ether gave 2.6 g. XVI. The attempted solvolysis of 7.2 g. XVII with 50 ml. 35% HBr in AcOH at room temperature (20 min.) gave 3.45 g. VIII. Treating at -5 to 0° 3.3 g. I, 0.61 ml. C5H5N. and 30 ml. CHCl3 with 1.04 ml. sec-BuOCOCl, after 5 min. diluting the chilled (-10°) mixture with chilled (0°) petr. ether till no more precipitation took place, after 5 min. decanting the upper layer, treating the residue with 30 ml. cooled (0°) CHCl3 and 1 ml. PhNH2 (evoln. of CO2), after 30 min. collecting the precipitate, washing with CHCl3, drying, and crystallizing gave 3 g. IV. If the above reaction was carried out in the conventional manner, 65% XI was obtained along with 0.18 g. X, 0.08 g. IX,

and 0.3 g. recovered I. Treating I, IV, XI, XII, and XVI, resp., with PhNH2, keeping the mixture 30 min. at 100°, cooling, diluting with excess 10% aqueous HCl, collecting the precipitate, and washing with 5% aqueous NaHCO3 gave IX. Keeping 0.44 g. I with 5 ml. 25% aqueous NH3 at room temperature overnight, acidifying, collecting the precipitate, triturating repeatedly with 5% aqueous NaHCO3, and washing with H2O gave 0.23 g. TsNHCH2CONH2, m. 163-4°. Refluxing 0.11 g. I, 1 ml. CHCl3, and 0.02 ml. C5H5N 30 min., evaporating, and washing the residue with 1 ml. 10% aqueous HCl and 1 ml. boiling EtOH gave 0.02 g. XI, prepared also (yield 47%) by heating 0.11 g. I with 1 ml. C5H5N 30 min. at 100° and working up as above. Introducing with agitation at 50-60° COCl2 into 5.5 g. finely ground VIII di-Na salt (from VIII in MeOH and 2N MeONa in MeOH) in 60 ml. dioxane 30 min., filtering the hot mixture, evaporating the filtrate, and triturating the residue with 20 ml. C6H6 gave 56% VI, whereas refluxing 1.65 g. XII with 5 ml. SOCl2 20 min., evaporating in vacuo, heating the residual oil at 130-50°/15 mm. till frothing ceased and crystals separated, triturating the cooled residue with 10 ml. C6H6, and collecting gave only 32% VI. Adding 0.18 ml. PhNH2 in 0.5 ml. dioxane to 0.51 g. VI in 2 ml. dioxane, keeping the mixture 5 min. at room temperature (evoln. of CO2) and 5 min. at 50°, diluting with 8 ml. H2O. and acidifying gave 100% IX. Treating 0.51 g. VI in 3 ml. dioxane with 0.21 g. H2NCH2CO2Et in 1 ml. dioxane, keeping the mixture 5 min. at room temperature (evolution of CO2), evaporating in vacuo, and washing the residue with aqueous NaHCO3 gave 0.52 g. TsNHCH2CONHCH2CO2Et, m. 89-90° (C6H6-petr. ether). Similarly, L-leucine Me ester gave 87% tosylglycyl-L-leucine Me ester, m. 79-80° (EtOAc-petr. ether). Carbonyl stretching frequencies of some derivs. of I and VIII were given and discussed.

IT **856944-58-6**, Glycine, N-carboxy-N-p-tolylsulfonyl-, benzyl ester (preparation of)

RN 856944-58-6 CAPLUS

CN Glycine, N-carboxy-N-p-tolylsulfonyl-, benzyl ester (6CI) (CA INDEX NAME)



L69 ANSWER 128 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1961:137433 CAPLUS

DOCUMENT NUMBER: 55:137433

ORIGINAL REFERENCE NO.: 55:25918g-h

TITLE: Saccharin derivatives. IV. Synthesis of 2-(diethylcarbamoyl)- and 2-(diethylthiocarbamoyl)saccharin, and related compounds

AUTHOR(S): Mehta, Satyendra J.; Hamor, Glenn H.

CORPORATE SOURCE: Univ. of S. California, Los Angeles

SOURCE: Journal of Pharmaceutical Sciences (1961), 50, 672-5
CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

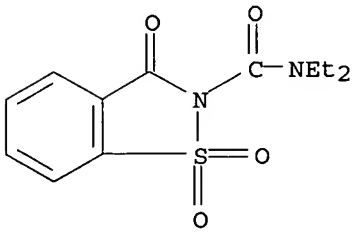
OTHER SOURCE(S): CASREACT 55:137433

AB cf. CA 54, 15362a. The following compds. were prepared by refluxing the appropriate compound with CHCl3 and Et2NCOCl and recrystg. the product from EtOH (m.p. and % yield given): saccharin derivs.: 2(diethylcarbamoyl), 117-18°, 40; 2-(diethylthiocarbamoyl), 206-7°, 34; 2-(diethylcarbamoyl)-6-nitro, 172-3°, 73; and 2-(carbethoxy), 136°, 65: 1,2-benzisothiazole 1,1-dioxide derivs.: 3-diethylamino, 206-7°, 46.9; 3-diethylamino-6-nitro, 256-7° (Me2CO), 67; and 3-(dimethylamino), 273-4°, 9.

IT **5443-42-5**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide **108676-51-3**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide
(preparation of)

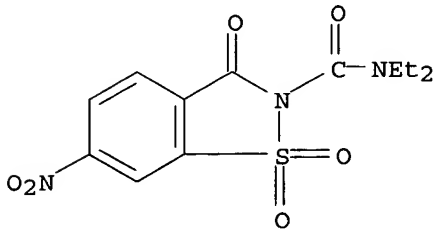
RN 5443-42-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 108676-51-3 CAPLUS

CN 2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide (6CI) (CA INDEX NAME)



L69 ANSWER 129 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1961:27961 CAPLUS

DOCUMENT NUMBER: 55:27961

ORIGINAL REFERENCE NO.: 55:5532b-f

TITLE: Sulfamoyl derivatives of certain saccharins

INVENTOR(S): Novello, Frederick C.

PATENT ASSIGNEE(S): Merck & Co., Inc.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

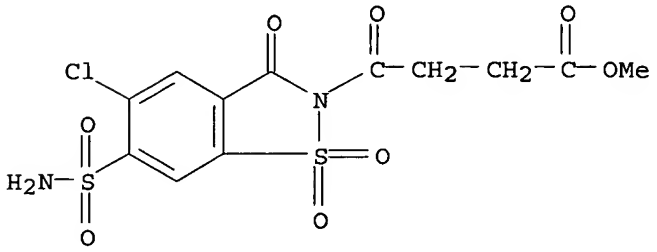
	US 2957883	19601025	US
	DE 1165033		DE
	FR 1326309		FR
	GB 887711		GB

AB A series of the title compds., useful as diuretics, was prepared via conventional reactions. Thus, 31.8 g. m-chlorotoluene was added dropwise to 165 ml. chlorosulfonic acid at 0°, the reaction mixture heated 3 hrs. at 150-60° and cooled, and the product precipitated over ice and added portion-wise to 150 ml. 28% NH4OH at 0°. This mixture was heated 2 hrs. at 100° and cooled and the 5-chloro-2,4-disulfamoyl-toluene, m. 256-7° (from aqueous EtOH), collected. Oxidation of this product with alkaline KMnO4 at 100° gave 5-chloro-2,4-disulfamoylbenzoic acid, decomposing 200° (from H2O), which was cyclodehydrated in H2SO4 at 25° to give 5-chloro-6-sulfamoylsaccharin (I), decomposing 273-5° (from 50% aqueous EtOH); di-Na salt of I was prepared from NaOEt in EtOH. Similar 5-substituted-6-sulfamoylsaccharins prepared from suitable m-substituted toluenes were (5-substituent given): fluoro, bromo, methyl, butyl, ethoxy, butoxy, and nitro compds. Reduction of the 5-nitro compound gave 5-amino-6-sulfamoylsaccharin. The isomeric 6-chloro-5-sulfamoylsaccharin was prepared from p-chlorotoluene via 4-chlorotoluene-2,5-disulfonyl chloride, 4-chloro-2,5-disulfamoyltoluene, and 4-chloro-2,5-disulfamoylbenzoic acid. Condensation of I with various compds. in the presence of KOEt in HCONMe2 gave derivs. of I. Substitution took place on the N atom (numbered 2) in the ring system (reactants and 2-substituents of 2-substituted-5-chloro-6-sulfamoylsaccharins given): (CH2Br)2, 2-bromoethyl (II); Br(CH2)3Br, 3-bromopropyl; n-C3H7Br, n-C3H7; CH2:CHCH2Br, allyl; PhCH2Br, PhCH2; PhCH2CH2Br, PhCH2CH2; n-C4H9Br, n-C4H9; phenylacetyl bromide, phenylacetyl; methyl succinoyl chloride, 3-carbomethoxypropionyl; and Et bromoacetate, 2-carbethoxymethyl (III). Alkaline hydrolysis of III gave 2-carboxymethyl-5-chloro-6-sulfamoylsaccharin. Reactions of II with alc. solns. of aqueous NaOH, NH3, n-C3H7NH2, and piperidine gave 2-(2-hydroxyethyl)-, 2-(2-aminoethyl), 2-(2-propylaminoethyl)-, and 2-(2-piperidinoethyl)-5-chloro-6-sulfamoylsaccharin, resp. Directions were given for the preparation of tablets.

IT **104095-24-1**, 1,2-Benzisothiazoline-2-butyric acid, 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide (preparation of)

RN 104095-24-1 CAPLUS

CN 1,2-Benzisothiazoline-2-butyric acid, 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide (6CI) (CA INDEX NAME)



L69 ANSWER 130 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1960:97262 CAPLUS
DOCUMENT NUMBER: 54:97262
ORIGINAL REFERENCE NO.: 54:18378c-i,18379a-g

TITLE: N-(α-Aminoacyl)sulfonamides
AUTHOR(S): Wieland, Theodor; Hennig, Hans Joachim
CORPORATE SOURCE: Univ. Frankfurt, Germany
SOURCE: Chemische Berichte (1960), 93, 1236-46
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 54:97262

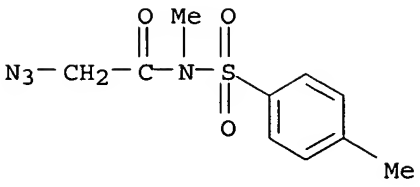
AB α-Azidoalkanoyl chlorides (I) with p-MeC6H4SO2NH2 (II) or p-O2NC6H4SO2NH2 (III) and N3CH2COCl (IV) with MeSO2NH2 (V) yielded the corresponding, strongly acidic N-azidoacylsulfonamides (VI). The VI reduced with HBr in glacial AcOH gave the corresponding N-(α-aminoacyl)sulfonamides (VII); p-NO2-substituted VI hydrogenated over Pd black gave the corresponding p-aminobenzenesulfonimides of the amino acids. The VII were typical zwitterions and gave a number of reactions typical of amino acids. The appropriate α-halo acid (0.667 mole) dissolved with cooling in 200 cc. 3.3N NaOH, treated with 50 g. NaN3, layered with 20 cc. Et2O, refluxed 48-60 hrs., acidified with 350 cc. iced 2N H2SO4, and extracted with 3 l. Et2O (in portions), the extract dried and evaporated, the residual liquid treated dropwise with 100 cc. SOCl2 (in portions), and the mixture refluxed 1 hr., filtered, and fractionated yielded the corresponding I; in this manner were prepared IV, b12 41°, 77%; MeCHN3COCl, b15, 44°, 85%; and Me2CHCHN3COCl, b13 61°, 70%. The appropriate sulfonamide (0.1 mole) and 0.12-0.15 mole I in 75 cc. xylene treated at 130-5° with a stream of N during 8 hrs., cooled, and filtered, and the residue recrystd. with C gave the corresponding VI; method A. The appropriate sulfonamide (0.2 mole) in 100 cc. 2N NaOH treated dropwise with stirring during 2 hrs. with 0.1 mole I, stirred 3 hrs., the mixture filtered, the residue treated with a small amount of aqueous NaHCO3, the alkaline extract acidified and extracted with 100 cc. EtOAc, the extract reextd. with 7% aqueous NaHCO3, and the aqueous alkaline extract acidified with HCl gave crystalline VI; method B. In this manner were prepared the following N3CHRCONHSO2R' (R, R', method, m.p., and % yield given): H, p-MeC6H4 (VIII), A, 105-6° (Et2O-petr. ether), 82; Me, p-MeC6H4, A, 104° (Et2O-petr. ether), 42; iso-Pr, p-MeC6H4, B, 91-2° (EtOAc-petr. ether), 46; H, p-O2NC6H4, B, 144-5° (EtOAc-petr. ether), 74; Me, p-O2NC6H4, B, 125° (EtOAc-petr. ether), 59; iso-Pr, p-O2NC6H4, B, 109° (EtOAc-petr. ether), 29. For the N-Me derivative (IX) of VIII, A, 82° (aqueous EtOH) (from VIII and CH2N2). IV condensed in the usual manner with V, 9.2 g. crude product in 150 cc. buffer (50 cc. C5H5N and 5 cc. glacial AcOH in 10 l. H2O) subjected to continuous electrophoresis during 5 days, the combined acidic fractions evaporated in vacuo, the residue dissolved in a few cc. EtOAc, and the solution filtered and diluted with petr. ether gave N3CH2CONHSO2Me, m. 98°. By method A were prepared in the usual manner p-MeC6H4SO2NHOCCH2Cl (X), m. 98-9° (Et2O-petr. ether), in 52% yield; N3CH2CONHBz (XI), 38%, m. 137° (Et2O-petr. ether); and N-(N-phthaloylglycyl)tosylamide, 89%, m. 295-6° (decomposition) (glacial AcOH) (from N-phthaloylglycyl chloride and II). The appropriate VI (0.02 mole) in 50-200 cc. glacial AcOH hydrogenated 5-6 hrs. over 1-2 g. Pd black, the mixture filtered, the filtrate evaporated in vacuo, the residue dissolved in a little H2O, reevapd. in vacuo, a past made with H2O, and the crystalline product recrystd. from H2O and dried in vacuo over solid KOH gave the corresponding VII; method C. Dry VI (0.01 mole) in 2 cc. dry Me2CO treated with cooling with 7 cc. 40% HBrAcOH, kept 1-2 hrs. at room temperature, and centrifuged, the crystalline precipitate washed with Et2O, the resulting VII.HBr (above 80% from glycine derivs.

and about 50% from alanine derivs.) dissolved in the min. amount of H2O, adjusted dropwise with 2N NaOH to pH 6.5, and filtered, and the residue recrystd. from H2O gave 60-70% VII; method D. In this manner were prepared the following compds. [method, % yield, m.p. (with decomposition), and Rf value in 75:15:10 EtMeCHOH-HCO2H-H2O given]: N-glycyltosylamide (XII).H2O, D, -, 233°, 0.41; N-glycylmesylamide, C, 57, 176° (aqueous EtOH), 0.09; N-glycyl-p-nitrobenzenesulfonamide, D, -, 226°, 0.27; N-glycyl-p-aminobenzenesulfonamide, C, 95, 235°, 0.16; N-(DL-alanyl)tosylamide (XIII), D, -, 230°, 0.47; N-(DL-alanyl)-p-nitrobenzenesulfonamide, D, -, 343°, 0.40; N-(DL-alanyl)-p-aminobenzenesulfonamide-H2O, C, 76, 234°, 0.22; N-(DL-valyl)tosylamide, C, 90, 243-5°, 0.55; N-(DL-valyl)-p-aminobenzenesulfonamide, C, 62, 238-40°, 0.33. XI with HBr-AcOH gave H2NCH2CONHBz.2HBr which in H2O turned dark red on prolonged standing. XII and Na2CO3 in aqueous MeOH treated with 2,4-(O2N)2C6H3F and acidified with concentrated HCl gave the 2,4-dinitrophenyl derivative of XII, yellow, m. 225-7° (EtOAc-petr. ether). Similarly was prepared the 2,4-dinitrophenyl derivative of XIII, yellow, m. 186° (EtOAc-petr. ether). PhCH2O2CNHCH2CO2H (0.02 mole) treated in tetrahydrofuran with ClCO2Et, the resulting anhydride shaken with 3.4 g. II in 10 cc. 2N NaOH, tetrahydrofuran evaporated, the residual mixture filtered, the filtrate adjusted with HCl to pH (about) 2, the precipitate dissolved in aqueous NaHCO3, and the solution adjusted with dilute HCl to pH 6 gave 40% PhCH2O2C derivative (XIV) of XII, m. 155-6° (H2O). PhCH2O2CNHCH2COSPh (3 g.) in 30 cc. tetrahydrofuran mixed with 1.7 g. II in 5 cc. 2N NaOH, diluted with H2O, heated 4 hrs. at 60°, and worked up in the usual manner gave 2 g. XIV. XII (2.46 g.) in 5 cc. 2N NaOH treated with stirring and cooling with 1.7 g. PhCH2O2CCl and 5 cc. 2N NaOH, the mixture washed with Et2O, acidified with HCl, and filtered after 1 hr. gave 1.55 g. XIV, m. 155-6°. XIII gave similarly the PhCH2O2C derivative, m. 115-16°. Carbobenzyloxy-DL-alanine and XII gave (by the anhydride method) 82% N-(carbobenzyloxy-alanylglycyl)tosylamide, m. 204° (decomposition) (aqueous EtOH), which (cleaved with HBr-AcOH) gave 78% N-(DL-alanylglycyl)tosylamide-HBr (XV.HBr), m. 190-5° (decomposition), which (neutralized in concentrated aqueous solution) yielded 41% XV, m. 130-2° (decomposition) (H2O). AcCO2H and XII (condensed by the POCl3 method) gave 11% AcCO derivative (XVI) of XII, m. 207°. IX gave similarly 30% N-Me derivative of XVI, m. 98-9°. X (4.95 g.) in 50 cc. 40% aqueous Me3N kept 1 week and filtered yielded N,N,N-trimethylglycyl-p-toluenesulfonamide betaine, m. 295-90° (decomposition) (H2O). XII (0.69 g.) in 6 cc. N NaOH treated with 0.62 cc. BzH and 3 cc. EtOH, kept 2 weeks at room temperature, the mixture filtered, the residue dissolved in a little warm H2O, the solution acidified with HCl, washed with Et2O, and evaporated in vacuo, and the residue recrystd. (from H2O with C) gave 30% N-(DL-3-phenylseryl)tosylamide, decomposing above 200°. The infrared absorption spectra of XIII and XIII.HCl were recorded.

IT **99069-72-4**, Acetamide, 2-azido-N-methyl-N-p-tolylsulfonyl-
(preparation of)

RN 99069-72-4 CAPLUS

CN Acetamide, 2-azido-N-methyl-N-p-tolylsulfonyl- (6CI) (CA INDEX NAME)



L69 ANSWER 131 OF 131 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1948:4167 CAPLUS
DOCUMENT NUMBER: 42:4167
ORIGINAL REFERENCE NO.: 42:907h-i,908a-i,909a
TITLE: Reactions of 2-(phenylsulfonyl)benzoisothiazolone with aromatic amines
AUTHOR(S): McClelland, Ernest W.; Peters, Raymond H.
CORPORATE SOURCE: King's Coll., Strand, UK
SOURCE: Journal of the Chemical Society, Abstracts (1947) 1229-34
CODEN: JCSAAZ; ISSN: 0590-9791
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

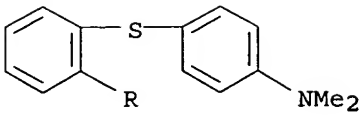
AB cf. C.A. 33, 6306.6. 2-(Phenylsulfonyl)-1,2-benzoisothiazolone (I) (5 g.) and 5 g. PhNMe2 in 20 ml. EtOH, refluxed 3 hrs., give 4-dimethylamino-2'-(phenylsulfonylcarbamyl)diphenyl sulfide (II), PhSO2NHCOC6H4SC6H4NMe2, yellow, m. 172°; the Na salt (m. 308°, slightly soluble in H2O) with Me2SO, yields a Me derivative, C22H22O3N2S2, m. 144° (hydrolysis yields PhSO2NHMe, m. 31°). Hydrolysis of II by boiling 2 hrs. with concentrated HCl gives 4-dimethylamino-2'-carboxydiphenyl sulfide (III), pale green, m. 250-60° (decomposition). (4-Me2NC6H4)2S2, reduced with 3 g. Sn and 30 cc. concentrated HCl, made alkaline with 100 cc. 35% aqueous NaOH, heated while a stream of N is passed through the solution, a diazotized solution of 8.8 g. o-H2NC6H4CO2H added, and heated an addnl. 5 min., gives III, which seps. with 1 mol. EtOH; each sample of III yields an Et ester, C17H19O2NS, m. 143°. I and PhNMeEt yield the 4-(methylethylamino) analog of II, pale yellow, m. 141°; hydrolysis gives the 4-(methylethylamino) analog of III, greenish, m. about 230° (decomposition); it was also synthesized from (4-MeEtNC6H4)2S2. 4-(Benzylmethylamino) analog of II, pale green, with 1 mol. EtOH, m. 123°; 4-(benzylmethylamino) analog of III, pale green, m. 194°. 4-Methylamino analog of II, m. 142°, turns green in the air. NO derivative, golden, m. 170°; hydrolysis with 60% H2SO4 gives 4-methylamino-2'-carboxydiphenyl sulfide, buff, m. 224°; Ac derivative m. 184°. 4-Ethylamino analog of II, cream, m. 150°; NO derivative, red, m. 138°, turns yellow on heating; hydrolysis with 60% H2SO4 gives 4-ethylamino-2'-carboxydiphenyl sulfide, buff, m. 224°; Ac derivative m. 184°. I and PhNH2 give the 4-NH2 analog of II, m. 167° (incorrectly formulated in C.A. 33, 6306.6); perchlorate, m. 221° (decomposition), seps. with 1 mol. H2O; the diazo solution yields an azo-2-naphthol, red, m. 148°; hydrolysis with 60% gives 4-H2NC6H4SC6H4CO2H-2. I and o-MeC6H4NH2 give 4-amino-2'-(phenylsulfonylcarbamyl)-3-methyldiphenyl sulfide, m. 118°; perchlorate, cream, m. 225° (decomposition); the corresponding azo-2-naphthol, dark red, m. 136°. II (5 g.) and 20 cc. concentrated H2SO4, warmed 1 hr. at 50°, give 2-dimethylaminothiaxanthone, orange, m. 122°; the H2SO4 solution has a green fluorescence; it results also from III and concentrated H2SO4. A 2nd

product is presumably 4-dimethylamino-3-sulfo-2'-carboxydiphenyl sulfide, m. 318°; heated 0.5 hr. at 150° with 10 parts concentrated H_2SO_4, it yields 2-dimethylamino-3-thiaxanthonesulfonic acid, with 1 mol. H_2O, not melted at 310°; the Na salt m. 310°; the K salt, with 2 mols. H_2O, m. 95° (anhydrous, m. 230°). 2-(Methylethylamino)thiaxanthone, pale orange, m. 120°; 4-(methylethylamino)-3-sulfo-2'-carboxydiphenyl sulfide m. 314° (decomposition); Na salt m. 272° K salt m. 215°. 2-(Benzylmethylamino)thiaxanthone, yellow, m. 149.5°; 4-(benzylmethylamino)-3-sulfo-2'-carboxydiphenyl sulfide m. 286° (decomposition). 2-Methylaminothiaxanthone, yellow, m. 158°, or red, becoming yellow at about 144°; 4-methylamino-3-sulfo-2'-carboxydiphenyl sulfide m. 321° (decomposition). 2-Ethylaminothiaxanthone, orange, m. 134°; no sulfonic acid could be isolated. 2-Aminothiaxanthone yields a di-Ac derivative, yellow, m. 245°. 4-Amino-3-sulfo-2'-carboxydiphenyl sulfide m. above 320°. I and p-$MeC_6H_4NH_2$ in EtOH, refluxed 5 hrs., give the lactam of 2-amino-2'-carboxy-5-methyldiphenyl sulfide (IV), $C_{14}H_{11}ONS$, m. 274°; H_2O_2 in AcOH gives the sulfone, $C_{14}H_{11}O_3NS$, m. above 320°. Hydrolysis (4 hrs.) with 65% H_2SO_4 gives 4-amino-1-methylthiaxanthone and 2-amino-2'-carboxy-5-methyldiphenyl sulfide, $C_{14}H_{13}O_2NS$, pale buff, m. 170°. I and p-$MeOC_6H_4NH_2$ give the 5-MeO analog of IV, m. 235° (Ac derivative, m. 165°); sulfone m. 246° (Ac derivative, m. 194°); the same lactam results from 2-(p-tolylsulfonyl)-1,2-benzoisothiazolone; hydrolysis by acid gives 2-amino-2'-carboxy-5-methoxydiphenyl sulfide, buff, m. 168° (perchlorate, m. 210° (decomposition)); a by-product of the hydrolysis appears to be 4-amino-1-hydroxythiaxanthone, red, m. 238°; Me ether, yellow, m. 168°. I and p-$ClC_6H_4NH_2$ give the lactam of 5-chloro-2-amino-2'-carboxydiphenyl sulfide, m. 321°; the acid m. 183°. Lactam of 2-amino-2'-carboxydiphenyl sulfide, m. 256°; sulfone m. 290°. The di-p-toluidide (V), $C_{28}H_{24}O_2N_2S_2$, m. 233°, and the bis(p-nitroanilide), $C_{26}H_{18}O_6N_4S_2$, light brown, m. 263°, of 2,2'-dithiodibenzoic acid were prepared from 2,2'-dithiodibenzoyl chloride (VI) and the corresponding amine. Passage of Cl into VI covered with CCl_4 until solution resulted and addition of the solution to ice-cold p-$MeC_6H_4NH_2$ in CCl_4 give 2-p-tolyl-1,2-benzoisothiazolone, m. 135°; 2-(p-nitrophenyl) analog (VII) m. 238°; oxidation of VII with H_2O_2 in hot AcOH gives N-(p-nitrophenyl)saccharin, pale yellow, m. 229°. V (3 g.) in 50 cc. CCl_4, treated with 2 g. Br in 10 cc. AcOH, the precipitate of the bromothiol boiled with 100 cc. AcOH, and the thiazolone oxidized with H_2O_2 in hot HOAc gives VII. $PhNMe_2$ did not react with the 2-Me, 2-Ph, 2-p-tolyl, 2-(p-nitrophenyl), or 2-Bz derivs. of I. Thus, this reaction of the (arylsulfonyl)-1,2-benzoisothiazolones depends on the joint action of the SO_2 and CO groups attached to the same N atom, the simultaneous presence of which facilitates the rupture of the heterocyclic ring.

IT **857487-10-6**, Benzamide, o-(p-dimethylaminophenylthio)-N-methyl-N-(phenylsulfonyl)-
(preparation of)

RN 857487-10-6 CAPLUS

CN Benzamide, o-(p-dimethylaminophenylthio)-N-methyl-N-(phenylsulfonyl)- (5CI) (CA INDEX NAME)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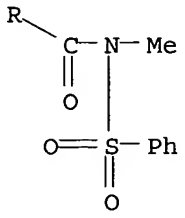
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Claim 9


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DICTIONARY FILE UPDATES:  28 DEC 2005  HIGHEST RN 870751-96-5

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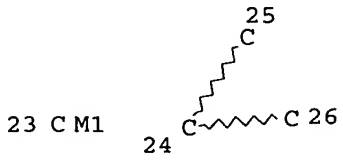

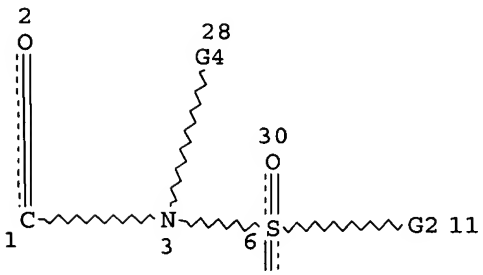

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Page 1-B

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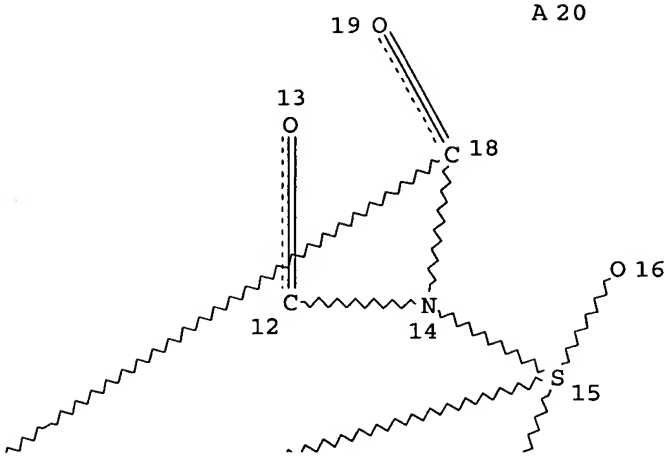

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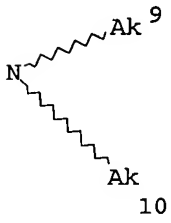

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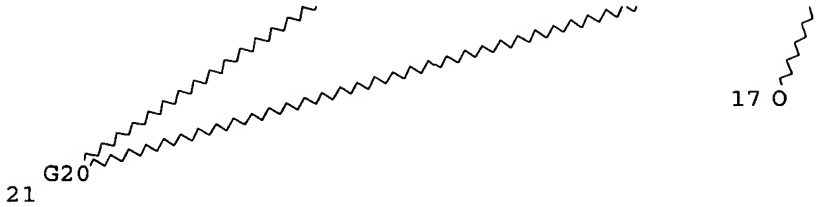

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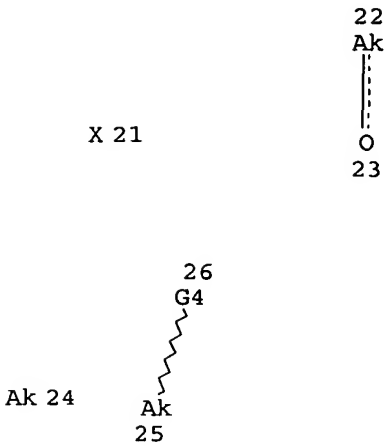

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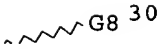

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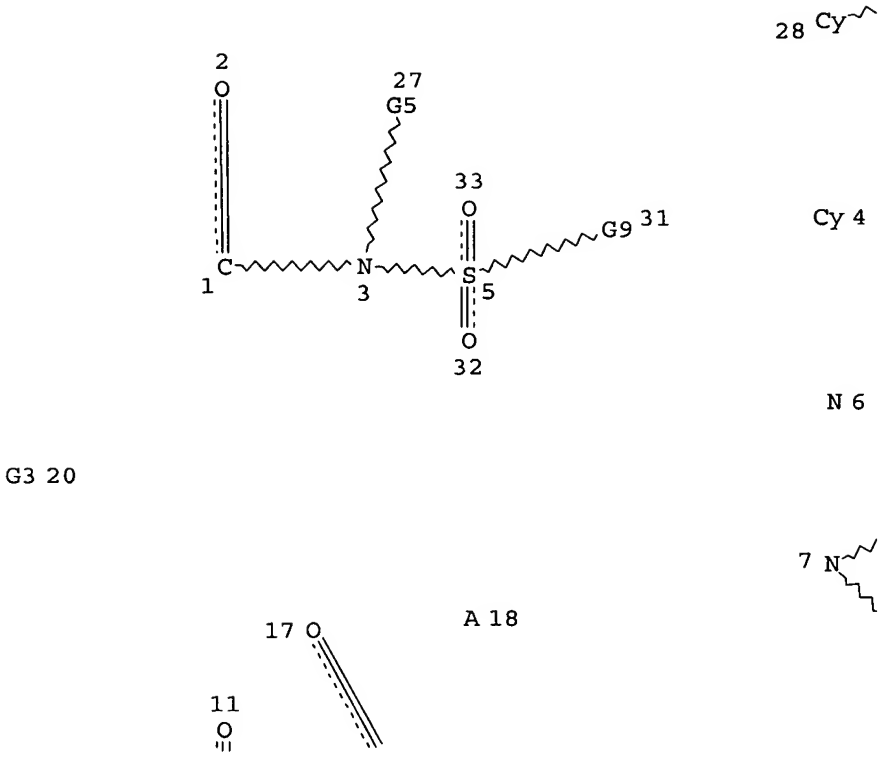

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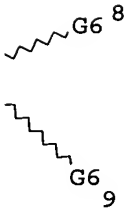

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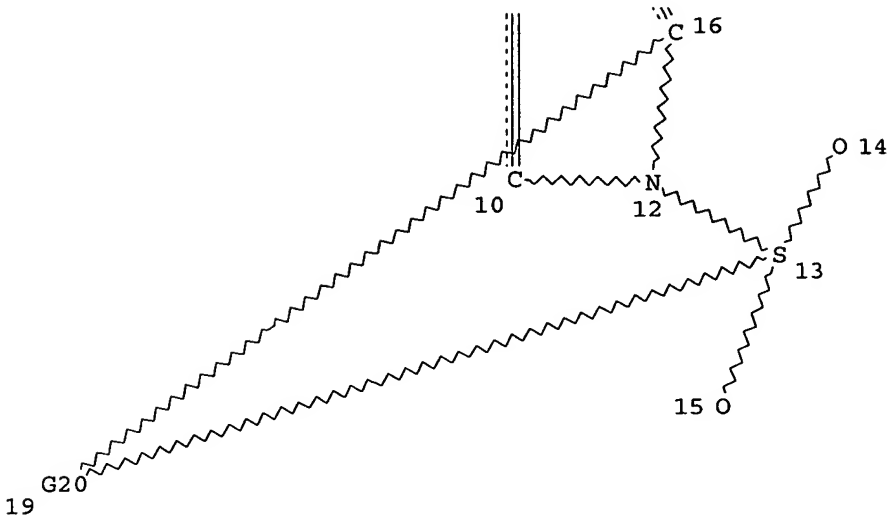

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NSPEC IS C AT 24
NSPEC IS C AT 25
NSPEC IS C AT 26
NSPEC IS C AT 27
NSPEC IS C AT 28
NSPEC IS C AT 29
NSPEC IS C AT 30

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NSPEC   IS C      AT  31
NSPEC   IS C      AT  32
NSPEC   IS C      AT  33
CONNECT IS E1  RC AT   4
CONNECT IS E1  RC AT  14
CONNECT IS E1  RC AT  15
CONNECT IS E1  RC AT  24
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   1  2  3  5  7 10 11 14 15 17 21 22 23 24 25 29 32
          33
GGCAT   IS UNS  AT   4
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  33

STEREO ATTRIBUTES: NONE
L15         2986 SEA FILE=REGISTRY SUB=L4 SSS FUL L13
L19         1085 SEA FILE=REGISTRY SUB=L15 SSS FUL L7
L21          754 SEA FILE=REGISTRY SUB=L15 SSS FUL L11
L24              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L26          691 SEA FILE=REGISTRY SUB=L19 SSS FUL L24
L28              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L30          372 SEA FILE=REGISTRY SUB=L21 SSS FUL L28
L34              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L36          283 SEA FILE=REGISTRY SUB=L30 SSS FUL L34
L38              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L40          432 SEA FILE=REGISTRY SUB=L26 SSS FUL L38
L41          467 SEA FILE=REGISTRY ABB=ON  PLU=ON  L40 OR L36
L42          172 SEA FILE=CAPLUS ABB=ON  PLU=ON  L41
L70              STR
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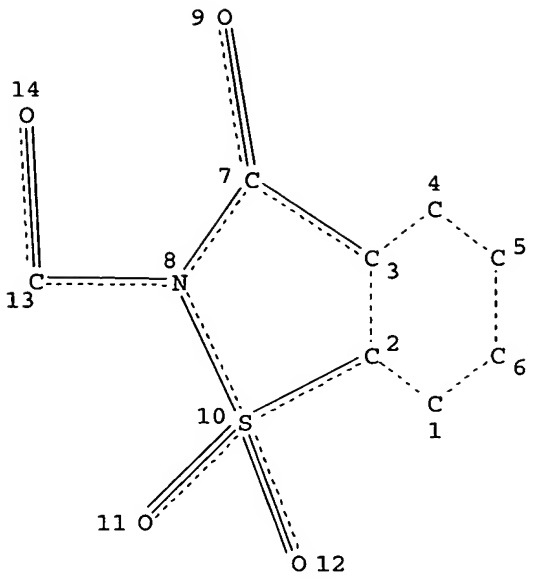

NODE ATTRIBUTES:
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NSPEC IS R AT 8
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NSPEC IS C AT 12
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NSPEC IS C AT 14
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 9 11 12 13 14
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L78 95 SEA FILE=REGISTRY SUB=L19 SSS FUL L70
L79 63 SEA FILE=REGISTRY SUB=L21 SSS FUL L70
L80 103 SEA FILE=REGISTRY ABB=ON PLU=ON L78 OR L79
L81 47 SEA FILE=CAPLUS ABB=ON PLU=ON L80
L114 22 SEA FILE=CAPLUS ABB=ON PLU=ON L42 AND L81

=> d ibib abs hitstr L114 1-22

L114 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:982594 CAPLUS
DOCUMENT NUMBER: 143:286179
TITLE: Preparation of N-(phenylsulfonyl)thiolcarbamates and

agrochemical fungicides containing them

INVENTOR(S): Itsuki, Yoshinori; Shibata, Takashi; Kajiki, Ryu; Kose, Katsumi; Yamaji, Koji; Takahashi, Satoru

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.

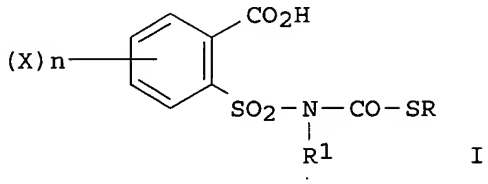
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005239614	A2	20050908	JP 2004-50263	20040225

PRIORITY APPLN. INFO.: JP 2004-50263 20040225
OTHER SOURCE(S): MARPAT 143:286179

GI

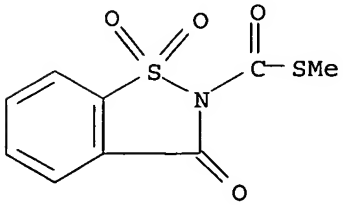


I

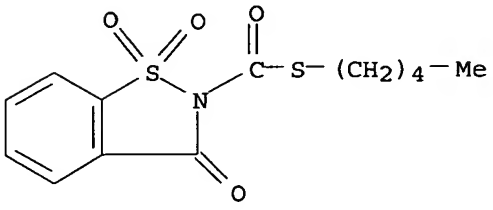
AB The title compds. I [R = H, C1-12 alkyl, C2-6 alkenyl, C1-6 alkylthio-C1-6 alkyl, (un)substituted benzyl (substituent = halo, NO2, cyano, C1-6 alkyl, NR2R3, etc.), (un)substituted Ph, O, S, and/or N-containing C3-10 (un)substituted heterocyclyl; R1 = H, C1-6 alkyl, C2-6 alkenyl, C1-6 cyanoalkyl, (un)substituted benzyl; R2, R3 = H, C1-6 alkyl, C2-6 alkenyl, (un)substituted phenyl; R4, R5 = H, C1-6 alkyl; X = halo, NO2, cyano, C1-6 (halo)alkyl, C1-6 (halo)alkoxy, NR2R3; n = 0-4] or their salts are prepared Agrochem. fungicides containing I (salts) are also claimed. Thus, application of 2-methylthiocarbonylaminosulfonylbenzoic acid, prepared by reacting saccharin Na with ClCOSMe and hydrolyzing the N-acylated product, to rice seedlings showed ≥80% control rate against Piricularia oryzae.

IT **863554-51-2P 863554-54-5P 863554-55-6P 863554-56-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-(phenylsulfonyl)thiolcarbamates as agrochem. fungicides)

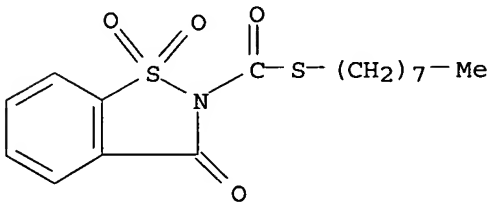
RN 863554-51-2 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-methyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



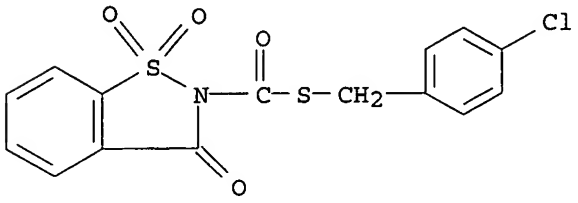
RN 863554-54-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-pentyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 863554-55-6 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-octyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 863554-56-7 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-[(4-chlorophenyl)methyl] ester, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:961974 CAPLUS
DOCUMENT NUMBER: 143:266910
TITLE: Preparation of benzisothiazoline derivatives as agricultural or horticultural plant disease control agents
INVENTOR(S): Itsuki, Yoshinori; Shibata, Masaru; Kajiki, Ryu; Furuse, Katsumi; Yamaji, Kouji; Takahashi, Satoru
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan; Ihara Chemical Industry Co., Ltd.
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005079576	A1	20050901	WO 2005-JP2710	20050221

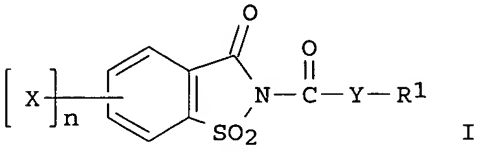
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2004-50262 A 20040225

OTHER SOURCE(S): MARPAT 143:266910

GI



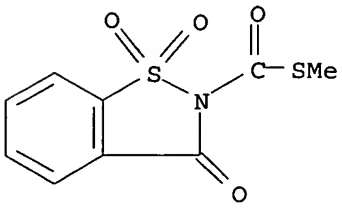
I

AB Title compds. I [Y = O, S; R1 = alkyl, etc. when Y = O; R1 = alkyl, etc. when Y = S; X = halo, etc.; n = 0-4] were prepared For example, treatment of sodium saccharin with heptyl chloroformate afforded 2-heptyloxycarbonyl-1,2-benzoylthiazolin-3-one 1,1-dioxide (II) in 80% yield. Compound II controlled Pyricularia oryzae by 80-100%. Compds. I are claimed useful as agricultural or horticultural plant disease control agents. Formulations are given.

IT **863554-51-2P 863554-52-3P 863554-53-4P**
863554-54-5P 863554-55-6P 863554-56-7P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzisothiazoline derivs. as agricultural or horticultural plant disease control agents)

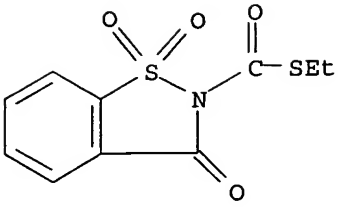
RN 863554-51-2 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-methyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)

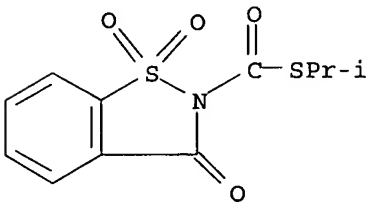


RN 863554-52-3 CAPLUS

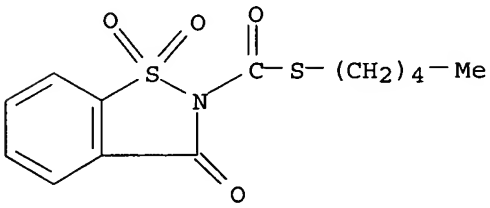
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



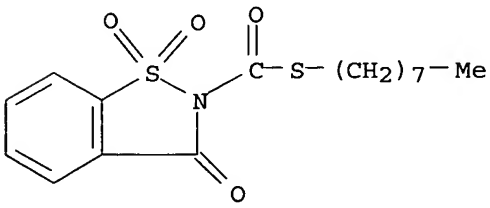
RN 863554-53-4 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-(1-methylethyl) ester, 1,1-dioxide (9CI) (CA INDEX NAME)



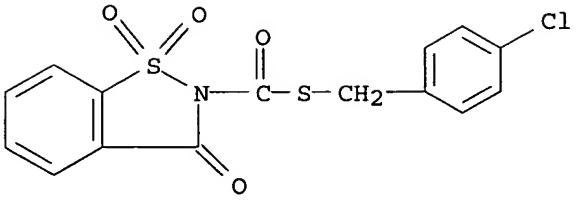
RN 863554-54-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-pentyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 863554-55-6 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-octyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 863554-56-7 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carbothioic acid, 3-oxo-, S-[(4-chlorophenyl)methyl] ester, 1,1-dioxide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L114 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:638826 CAPLUS
DOCUMENT NUMBER: 143:149406
TITLE: Acoustic sensors and methods
INVENTOR(S): Baetzold, John P.; Benson, Karl E.; Bommarito, Mario G.; Daniels, Michael P.; Everaerts, Albert I.; Flanigan, Peggy-Jean P.; Free, Benton M.; Kipke, Cary A.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G. I.; Nguyen, Lang N.; Shah, Rahul; Stark, Peter A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066092	A2	20050721	WO 2004-US42382	20041217
WO 2005066092	A3	20051013		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005112672	A1	20050526	US 2004-987522	20041112
US 2005227076	A1	20051013	US 2004-987075	20041112
WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		
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MR, NE, SN, TD, TG
WO 2005075973 A2 20050818 WO 2004-US42662 20041217
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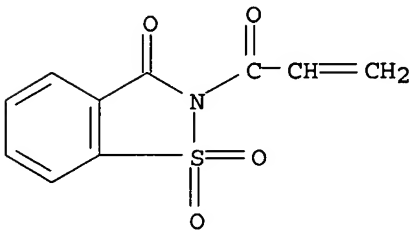
PRIORITY APPLN. INFO.:

US 2003-533169P	P	20031230
US 2004-987075	A	20041112
US 2004-987522	A	20041112
US 2003-713174	A2	20031114
US 2003-714053	A2	20031114

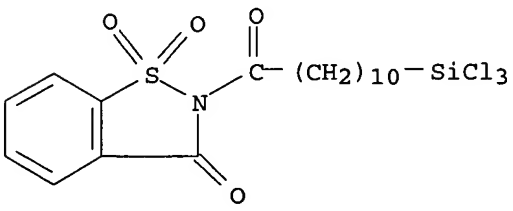
AB This article discloses acoustic sensors, preferably surface acoustic wave sensors, and more preferably shear horizontal surface acoustic wave sensors that include soluble polymers, monomers (optionally mixed with oligomers and/or polymers formed from such monomers), or multifunctional compds., for example, that can function as either waveguide materials, immobilization materials for secondary capture agents (e.g., antibodies), or both.

IT **41643-17-8P 851778-65-9P 852233-93-3P 852233-95-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(acoustic sensors and methods)

RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)

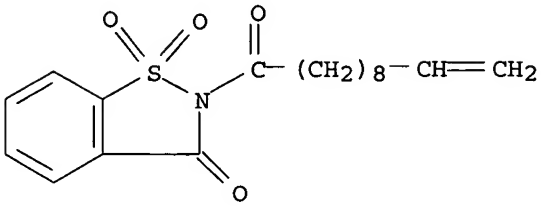


RN 851778-65-9 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

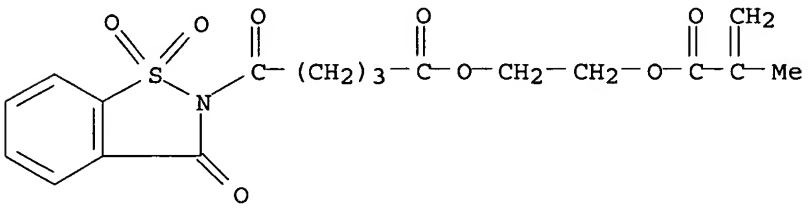


RN 852233-93-3 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-10-undecenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 852233-95-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:638661 CAPLUS
DOCUMENT NUMBER: 143:134114
TITLE: Soluble polymers as amine capture agents and methods
INVENTOR(S): Benson, Karl E.; Bommarito, G. Marco; Everaerts, Albert I.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G. I.; Shah, Rahul R.; Stark, Peter A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005065370	A2	20050721	WO 2004-US43917	20041229
WO 2005065370	A3	20050811		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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WO 2005064349 A2 20050714 WO 2004-US42455 20041217
WO 2005064349 A3 20051110
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WO 2005075973 A2 20050818 WO 2004-US42662 20041217
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PRIORITY APPLN. INFO.: US 2003-533169P P 20031230
US 2004-15399 A 20041217

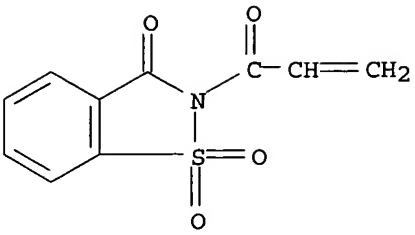
AB The invention relates to soluble polymers and methods for the preparation thereof,
wherein the polymers of the present invention have pendant acylsulfonamide amine-reactive groups that can be used for the capture of amine containing materials. Thus, mixing 154 mL DMF with 4-carboxybenzenesulfonamide (I) 30.0, succinic anhydride 16.41 and triethylamine 33.19 g at 50° under N for 4 h, after cooling to room temperature, combining the resulting mixture with 18.27 mL Ac2O, stirring for 1 h and working up gave a N-succinimide compound of I which was converted to an acyl chloride using thionyl chloride. Esterifying the succinimide with 2-hydroxyethyl methacrylate and polymerizing the resulting ester with a comonomer gave a polymer having amine-reactive pendant.

IT **859232-53-4P 859232-54-5P 859232-59-0P**
859232-60-3P 859232-61-4P 859232-62-5P
RL: ARU (Analytical role, unclassified); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation)
(manufacture of soluble polymers as amine capture agents and method of use)

RN 859232-53-4 CAPLUS
CN 2-Propenoic acid, methyl ester, polymer with 2-(1-oxo-2-propenyl)-1,2-benzisothiazol-3(2H)-one 1,1-dioxide (9CI) (CA INDEX NAME)

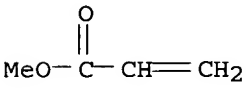
CM 1

CRN 41643-17-8
CMF C10 H7 N O4 S



CM 2

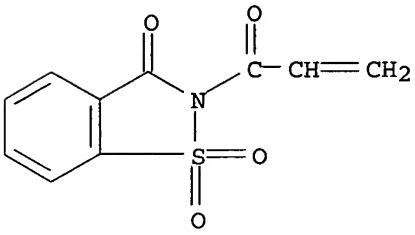
CRN 96-33-3
CMF C4 H6 O2



RN 859232-54-5 CAPLUS
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with 2-(1-oxo-2-propenyl)-1,2-benzisothiazol-3(2H)-one 1,1-dioxide (9CI) (CA INDEX NAME)

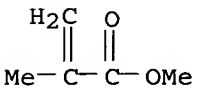
CM 1

CRN 41643-17-8
CMF C10 H7 N O4 S



CM 2

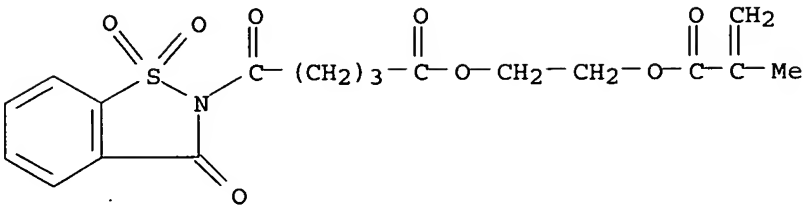
CRN 80-62-6
CMF C5 H8 O2



RN 859232-59-0 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

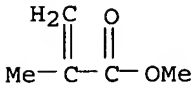
CM 1

CRN 852233-95-5
CMF C18 H19 N O8 S



CM 2

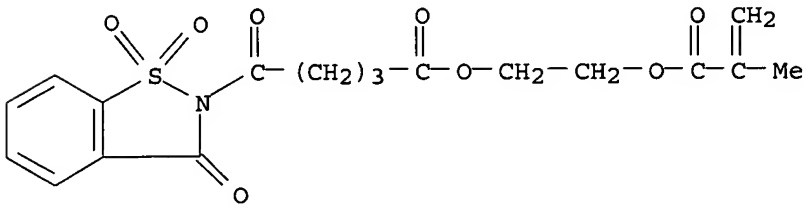
CRN 80-62-6
CMF C5 H8 O2



RN 859232-60-3 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with benzoylphenyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 852233-95-5
CMF C18 H19 N O8 S



CM 2

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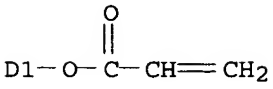
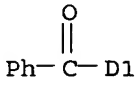
CCI IDS





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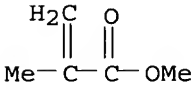
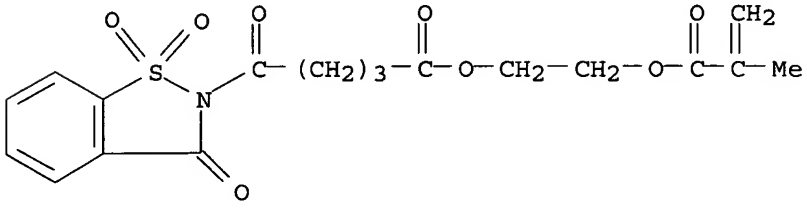
CRN 80-62-6
CMF C5 H8 O2



RN 859232-61-4 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with N,N-dimethyl-2-propenamide (9CI) (CA INDEX NAME)

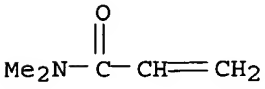
CM 1

CRN 852233-95-5
CMF C18 H19 N O8 S



CM 2

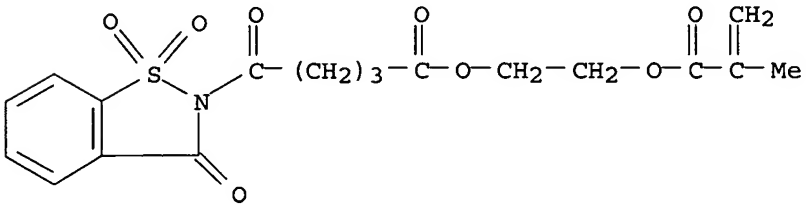
CRN 2680-03-7
CMF C5 H9 N O



RN 859232-62-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide, polymer with methyl 2-methyl-2-propenoate and rel-(1R,2R,4R)-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

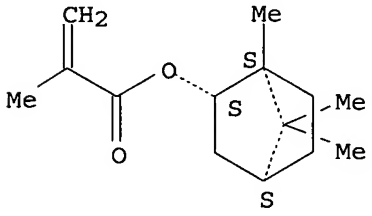
CRN 852233-95-5
CMF C18 H19 N O8 S



CM 2

CRN 7534-94-3
CMF C14 H22 O2

Relative stereochemistry.



CM 3

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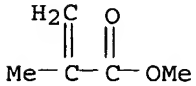
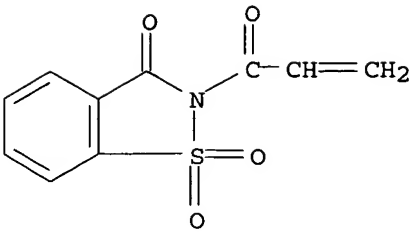
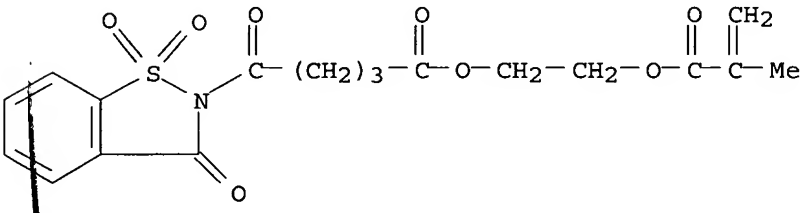
CMF C5 H8 O2



IT **41643-17-8P**, 2-Acryloylsaccharin **852233-95-5P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(manufacture of soluble polymers as amine capture agents and method of use)
RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 852233-95-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:453738 CAPLUS
DOCUMENT NUMBER: 142:478402
TITLE: N-sulfonylaminocarbonyl containing compounds
INVENTOR(S): Benson, Karl E.; David, Moses M.; Kipke, Cary A.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G. I.; Shah, Rahul R.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S. Ser. No. 713,174.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005112672	A1	20050526	US 2004-987522	20041112
US 2005107615	A1	20050519	US 2003-713174	20031114
WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		

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WO 2005066092 A2 20050721 WO 2004-US42382 20041217
WO 2005066092 A3 20051013
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WO 2005075973 A2 20050818 WO 2004-US42662 20041217
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PRIORITY APPLN. INFO.: US 2003-713174 A2 20031114
US 2003-533169P P 20031230
US 2004-987075 A 20041112
US 2004-987522 A 20041112

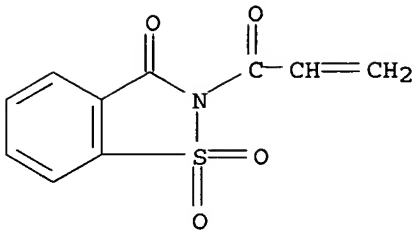
OTHER SOURCE(S): MARPAT 142:478402

AB Compds. having two reactive functional groups are described that can be used to provide a connector group between a substrate and an amine-containing material. The first reactive functional group can be used to provide attachment to a surface of a substrate. The second reactive functional group is a N-sulfonylaminocarbonyl group that can be reacted with an amine-containing material, particularly a primary aliphatic amine, to form a carbonylimino-containing connector group. The invention also provides articles and methods for immobilizing amine-containing materials to a substrate.

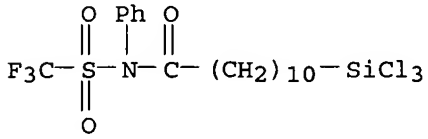
IT **41643-17-8P 851778-58-0P 851778-59-1P**
851778-60-4P 851778-61-5P 851778-62-6P
851778-63-7P 851778-65-9P 851778-69-3P
852233-89-7P 852233-93-3P 852233-94-4P
852233-95-5P 852233-96-6P
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
(N-sulfonylaminocarbonyl containing compds.)

RN 41643-17-8 CAPLUS

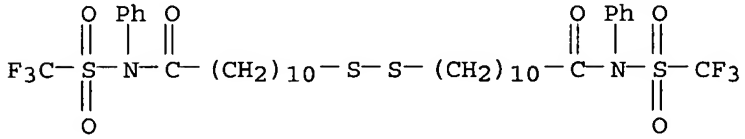
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 851778-58-0 CAPLUS
CN Undecanamide, N-phenyl-11-(trichlorosilyl)-N-[(trifluoromethyl)sulfonyl]-
(9CI) (CA INDEX NAME)

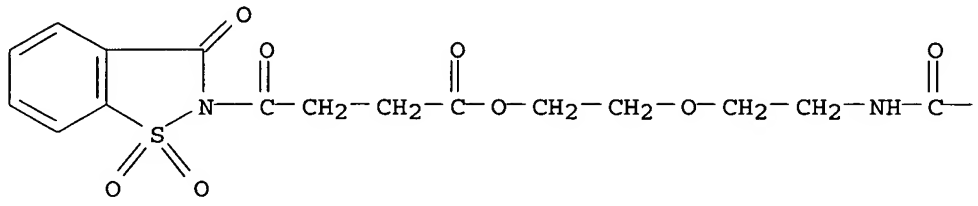


RN 851778-59-1 CAPLUS
CN Undecanamide, 11,11'-dithiobis[N-phenyl-N-[(trifluoromethyl)sulfonyl]-
(9CI) (CA INDEX NAME)



RN 851778-60-4 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-butanoic acid, γ,3-dioxo-,
7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl
ester, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)

PAGE 1-A



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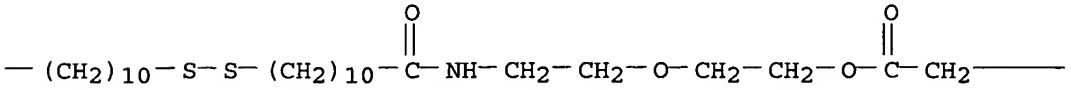

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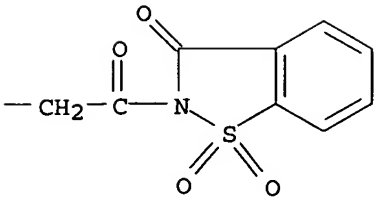
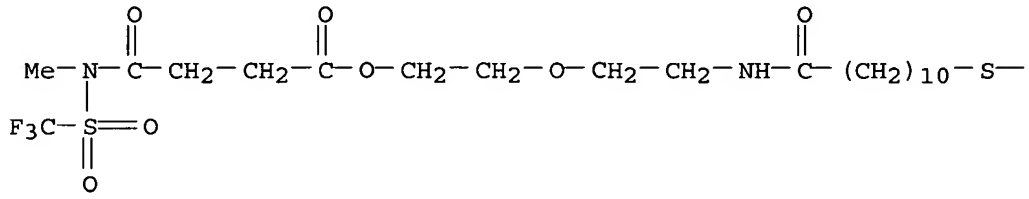
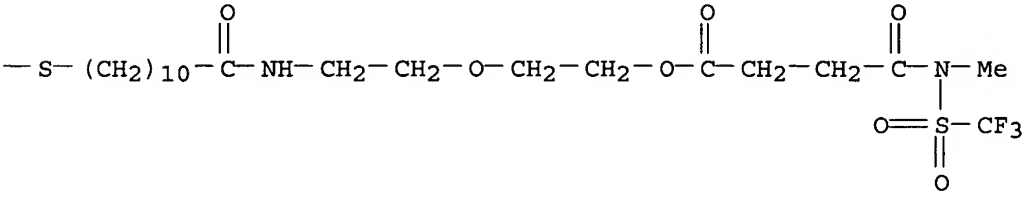


RN 851778-61-5 CAPLUS
CN Butanoic acid, 4-[methyl[(trifluoromethyl)sulfonyl]amino]-4-oxo-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

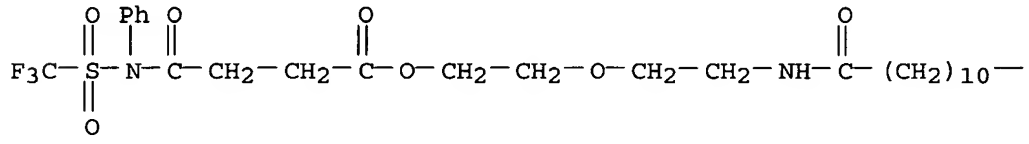


PAGE 1-B

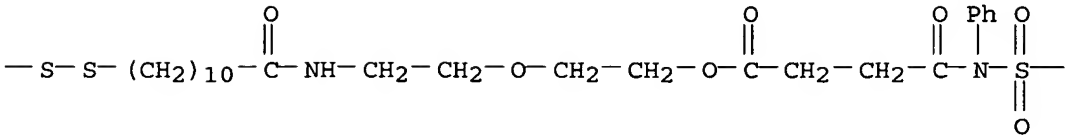


RN 851778-62-6 CAPLUS
CN Butanoic acid, 4-oxo-4-[phenyl[(trifluoromethyl)sulfonyl]amino]-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

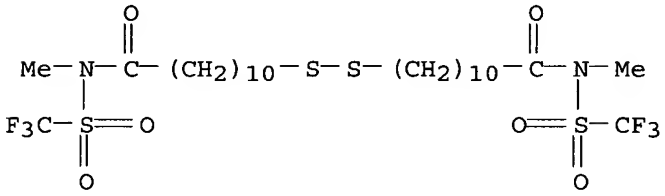


PAGE 1-B

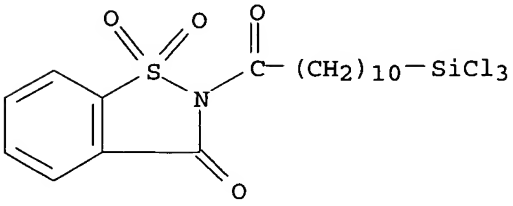


PAGE 1-C

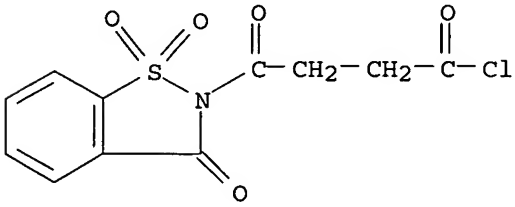
RN 851778-63-7 CAPLUS
CN Undecanamide, 11,11'-dithiobis[N-methyl-N-[(trifluoromethyl)sulfonyl]-(9CI) (CA INDEX NAME)



RN 851778-65-9 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)

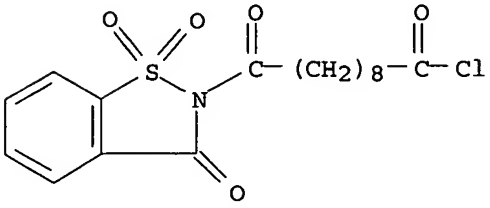


RN 851778-69-3 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-butanoyl chloride, γ,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

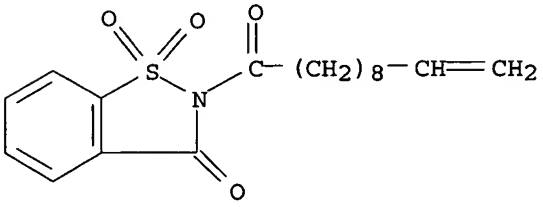


RN 852233-89-7 CAPLUS

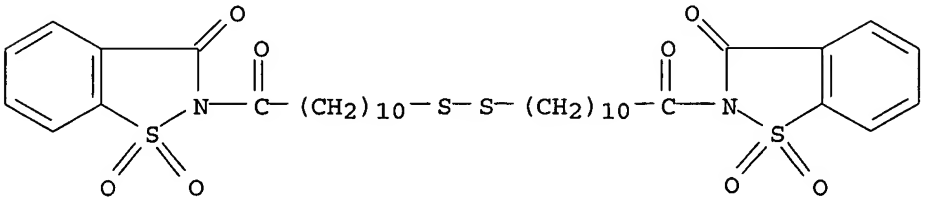
CN 1,2-Benzisothiazole-2(3H)-decanoyl chloride, ι,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



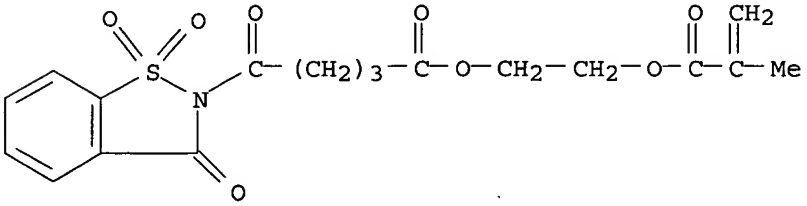
RN 852233-93-3 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-10-undecenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



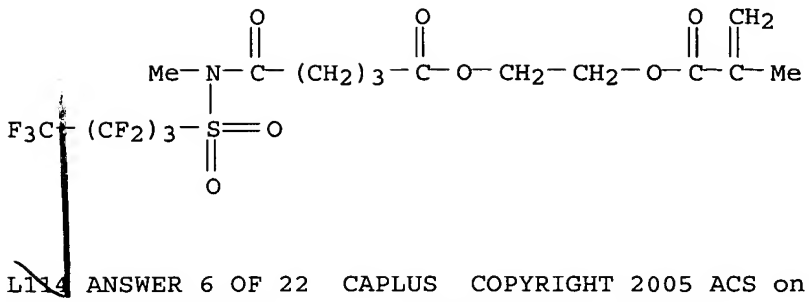
RN 852233-94-4 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2,2'-[dithiobis(1-oxo-11,1-undecanediyl)]bis-, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)



RN 852233-95-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 852233-96-6 CAPLUS
CN Pentanoic acid, 5-[methyl[(nonafluorobutyl)sulfonyl]amino]-5-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



L114 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:431463 CAPLUS
DOCUMENT NUMBER: 142:478409
TITLE: N-sulfonylaminocarbonyl containing compounds
INVENTOR(S): Benson, Karl E.; David, Moses M.; Kipke, Cary A.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G.; Shah, Rahul
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S. Pat. Appl. Publ., 37 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107615	A1	20050519	US 2003-713174	20031114
US 2005112672	A1	20050526	US 2004-987522	20041112
WO 2005049590	A2	20050602	WO 2004-US37965	20041112
WO 2005049590	A3	20050825		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

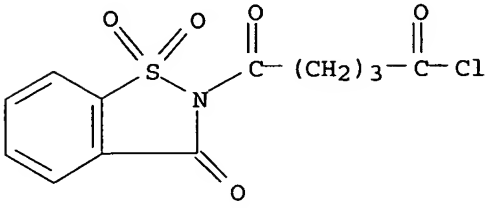
PRIORITY APPLN. INFO.: US 2003-713174 A2 20031114
US 2003-533169P P 20031230

OTHER SOURCE(S): MARPAT 142:478409

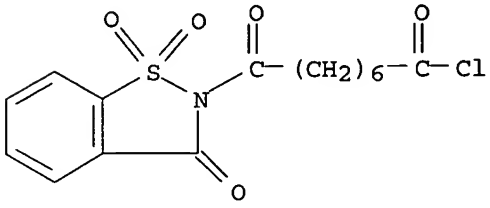
AB Compds. having two reactive functional groups are described that can be used to provide a connector group between a substrate and an amine-containing material. The first reactive functional group can be used to provide attachment to a surface of a substrate. The second reactive functional group is a N-sulfonylaminocarbonyl group that can be reacted with an amine-containing material, particularly a primary aliphatic amine, to form a carbonylimino-containing connector group. The invention also provides articles and methods for immobilizing amine-containing materials to a substrate.

IT **851778-67-1 851778-68-2 851778-69-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-sulfonylaminocarbonyl containing compds.)

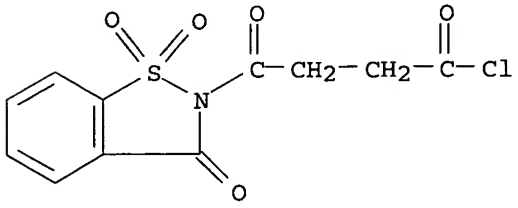
RN 851778-67-1 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoyl chloride, δ,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 851778-68-2 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-octanoyl chloride, η,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

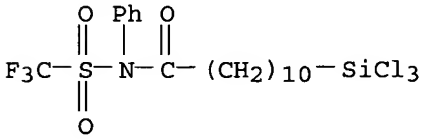


RN 851778-69-3 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-butanoyl chloride, γ,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

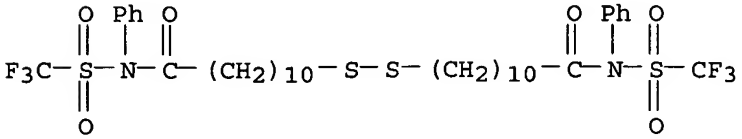


IT **851778-58-0P 851778-59-1P 851778-60-4P**
851778-61-5P 851778-62-6P 851778-63-7P
851778-65-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(N-sulfonylaminocarbonyl containing compds.)

RN 851778-58-0 CAPLUS
CN Undecanamide, N-phenyl-11-(trichlorosilyl)-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)

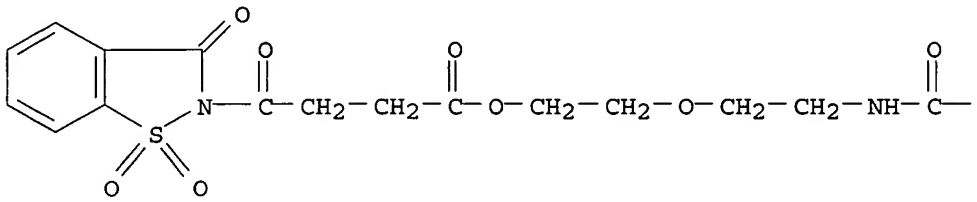


RN 851778-59-1 CAPLUS
CN Undecanamide, 11,11'-dithiobis[N-phenyl-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)

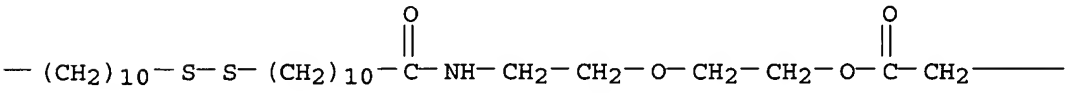


RN 851778-60-4 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-butanoic acid, γ,3-dioxo-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)

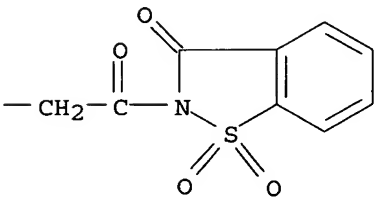
PAGE 1-A



PAGE 1-B

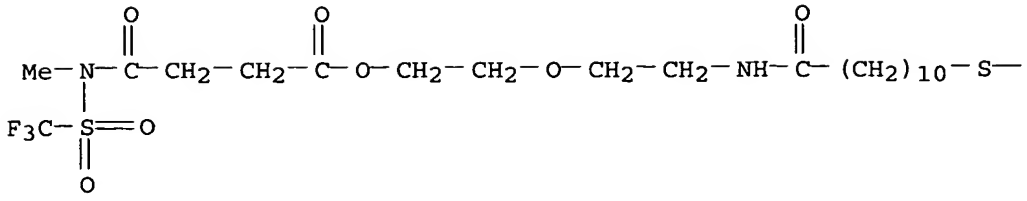


PAGE 1-C

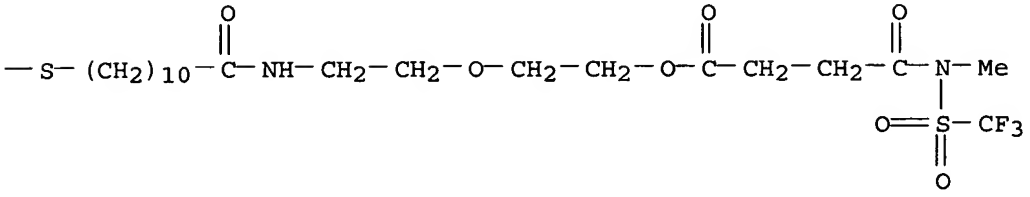


RN 851778-61-5 CAPLUS
CN Butanoic acid, 4-[methyl[(trifluoromethyl)sulfonyl]amino]-4-oxo-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

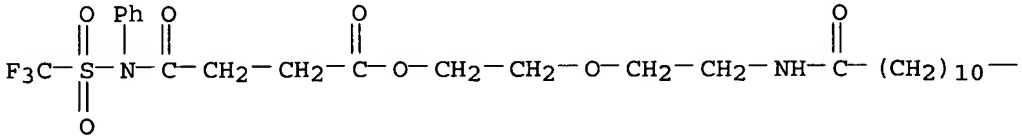


PAGE 1-B

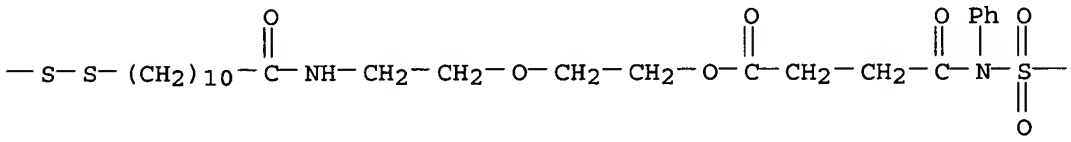


RN 851778-62-6 CAPLUS
CN Butanoic acid, 4-oxo-4-[phenyl[(trifluoromethyl)sulfonyl]amino]-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

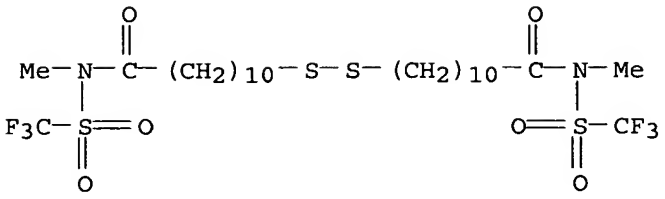


PAGE 1-B

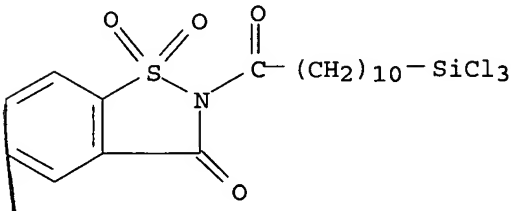


PAGE 1-C

RN 851778-63-7 CAPLUS
CN Undecanamide, 11,11'-dithiobis[N-methyl-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 851778-65-9 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:36727 CAPLUS
DOCUMENT NUMBER: 140:112981
TITLE: Ink containing dyes and acid precursors for inkjet, ink set for inkjet recording and inkjet recording method
INVENTOR(S): Taguchi, Toshiki
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 34 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

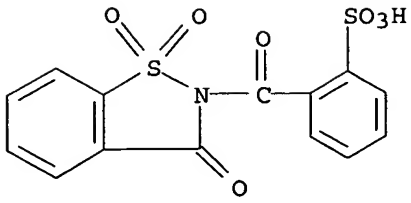
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1380623	A1	20040114	EP 2003-15588	20030714
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004043665	A2	20040212	JP 2002-204171	20020712
US 2004011247	A1	20040122	US 2003-617818	20030714
PRIORITY APPLN. INFO.:			JP 2002-204171 A	20020712

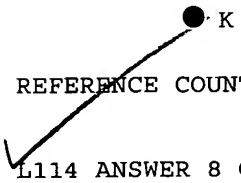
OTHER SOURCE(S): MARPAT 140:112981

AB An ink for inkjet recording comprises a dye, water, a water-miscible organic solvent and a precursor of acids, and thereby is rendered resistant to image blur even under a high humidity condition.

IT **644979-44-2**
RL: MOA (Modifier or additive use); USES (Uses)
(acid precursor; ink containing dyes and acid precursors for inkjet, ink set for inkjet recording and inkjet recording method)

RN 644979-44-2 CAPLUS
CN Benzenesulfonic acid, 2-[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, potassium salt (9CI) (CA INDEX NAME)





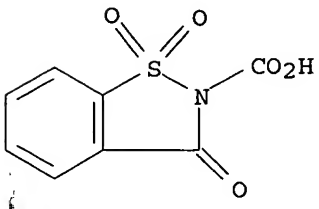
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L114 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:288810 CAPLUS
DOCUMENT NUMBER: 137:83888
TITLE: Spectra-structure correlations in solid metal saccharinates. II. Ab initio molecular structures and vibrational spectra of N-substituted saccharins at the HF level
AUTHOR(S): Naumov, Pance; Jovanovski, Gligor; Ohashi, Yuji
CORPORATE SOURCE: Institute of Chemistry, Faculty of Sciences, Sv. Kiril i Metodij University, Skopje, MK-1001, Macedonia
SOURCE: Solid State Sciences (2002), 4(2), 271-283
CODEN: SSSCFJ; ISSN: 1293-2558
PUBLISHER: Editions Scientifiques et Medicales Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Ground-state ab initio mol. geometries and vibrational spectra of 24 N-substituted isolated saccharins with small-size B, Br, C, Cl, F, N, O, P or S-groups and the parent mol. are predicted at RHF/6-31G level to examine the mol. structural changes stemming from N-substitution of saccharin (o-sulfobenzimide). Trends in the mol. geometrical parameters of the sulfimide ring and the carbonyl stretching frequency are discussed in relation to the electronic properties of the substituent and the solid state effects. The results are compared with the crystallog. data for N-substituted saccharins and metal saccharinato salts/complexes retrieved from the Cambridge Structural Database. The ability of several theor. methods to describe the substitution/deprotonation of the conjugated CO-NH-SO2 structure is summarized. Electronic properties of the substituent affect significantly only the immediate C-N and S-N bonds by as much as ±0.014 Å, while other bonds are relatively less influenced (± 0.004 Å). Combined with the effects of the crystal packing and thermal vibrations, they impose flexibility on the intramol. lengths up to ±0.02 Å. High correlation (R = 0.966) between the theor. ν(CO) frequencies and C-O distances is predictable for both of these parameters, but is lowered notably in the crystal by both vibrational and solid-state circumstances. From the structural viewpoint, the Nsac-X bonds (X = B, Br, C, Cl, F, N, O, P, S; sac denotes saccharin) behave similarly to the purely covalent Nsac-metal bonds.

IT **440671-29-4**, N-Carboxysaccharin
RL: PRP (Properties)
(mol. structures and vibrational spectra of N-substituted saccharins calculated at HF level)
RN 440671-29-4 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

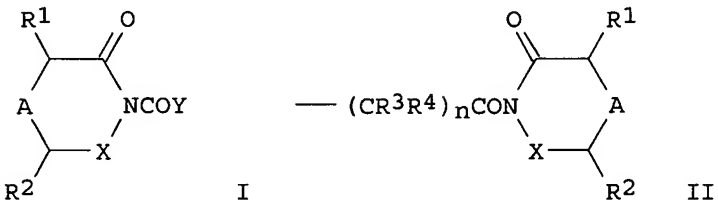


REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

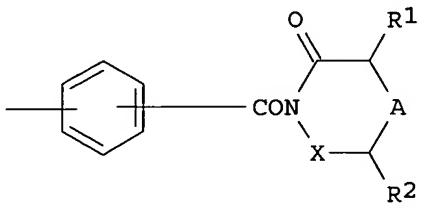
L114 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:708887 CAPLUS
DOCUMENT NUMBER: 123:242068
TITLE: Thermal recording sheets providing durable image
INVENTOR(S): Minami, Toshiaki; Nagai, Tomoaki; Hamada, Kaoru; Sekine, Akio; Kinishi, Ryoichi; Mizukami, Ryuzo
PATENT ASSIGNEE(S): Nippon Seishi Kk, Japan; Yoshitomi Pharmaceutical Industries, Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07108757	A2	19950425	JP 1993-255593	19931013
JP 2838873	B2	19981216		
PRIORITY APPLN. INFO.:			JP 1993-255593	19931013

GI



I II

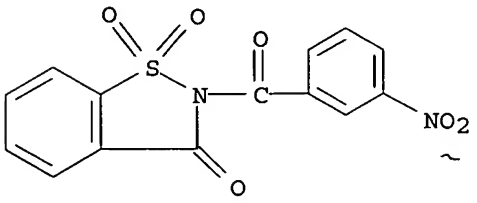


III

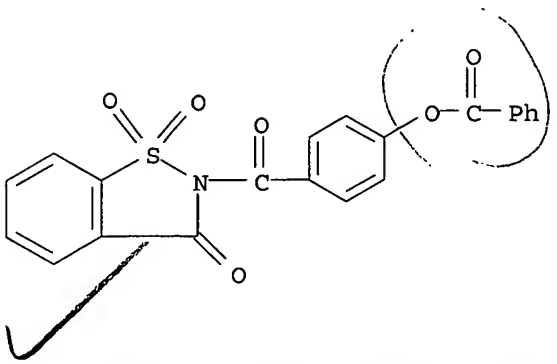
AB The title recording sheets comprise a support coated with a heat-sensitive

layer containing a basic colorless dye, an organic color developer, and ≥1 compound I [R1, R2 = H, alkyl, R1 and R2 may form a ring; A = single or double bond; X = C:O, SO2; Y = (substituted) alkyl, arylalkyl, (substituted) aryl, II, III (R3, R4 = H, alkyl; n = 0-8)]. A thermal recording sheet using 3-(N-ethyl-N-isoamylamino)-6-methyl-7-anilinofluoran and N,N'-isophthaloylbissaccharin for the color developer gave high d. images with good resistance to heat, water, and oils.

IT **168090-12-8**
RL: DEV (Device component use); USES (Uses)
(thermal recording material containing succinimide derivative)
RN 168090-12-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(3-nitrobenzoyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)

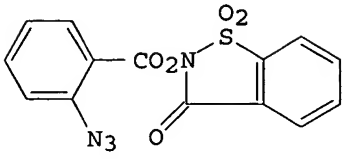


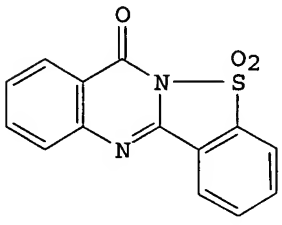
IT **168090-07-1P**
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(thermal recording material containing succinimide derivative)
RN 168090-07-1 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-[4-(benzoyloxy)benzoyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:122256 CAPLUS
DOCUMENT NUMBER: 114:122256
TITLE: Heterocycles by intramolecular aza-Wittig reactions of iminophosphoranes obtained from 2-azidobenzoyl- and 2-azidobenzylidene derivatives
AUTHOR(S): Luheshi, Abdul Bassett N.; Salem, Salem M.; Smalley, Robert K.; Kennewell, Peter D.; Westwood, Robert
CORPORATE SOURCE: Dep. Chem. Appl. Chem., Univ. Salford, Salford, M5 4WT, UK
SOURCE: Tetrahedron Letters (1990), 31(45), 6561-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 114:122256
GI


I

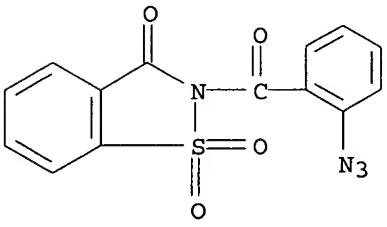

II

AB The use of iminophosphoranes in intramol. aza-Wittig reactions to prepare pyrrolo[1,2-a]benzimidazoles, fused quinazolinones, quinolines, and an isoindolo[1,3,4]benzotriazepinone is reported. Thus, (azidobenzoyl)oxobenzoisothiazoline dioxide I was treated with (EtO)3P to give 88% oxobenzoisothiazoloquinazoline dioxide II.

IT **132416-64-9P**
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(generation of iminophosphorane and intramol. aza-Wittig reaction of)

RN 132416-64-9 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-azidobenzoyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1986:424260 CAPLUS
DOCUMENT NUMBER: 105:24260
TITLE: Acylated saccharin derivatives.
INVENTOR(S): Salzburg, Herbert; Hajek, Manfred; Hagemann, Hermann; Kuehle, Engelbert; Fuehrer, Wolfgang; Haenssler, Gerd; Brandes, Wilhelm; Reinecke, Paul Dr
PATENT ASSIGNEE(S): Bayer A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 35 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

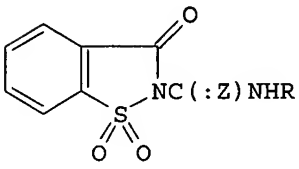
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3433391	A1	19860320	DE 1984-3433391	19840912
EP 177740	A1	19860416	EP 1985-110995	19850831
EP 177740	B1	19880928		

R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE

AT 37543	E	19881015	AT 1985-110995		19850831
US 4713389	A	19871215	US 1985-774271		19850910
DK 8504133	A	19860313	DK 1985-4133		19850911
ES 546877	A1	19860316	ES 1985-546877		19850911
AU 8547384	A1	19860320	AU 1985-47384		19850911
AU 571734	B2	19880421			
JP 61068477	A2	19860408	JP 1985-199614		19850911
ZA 8506951	A	19860430	ZA 1985-6951		19850911
BR 8504387	A	19860708	BR 1985-4387		19850911
DD 239516	A5	19861001	DD 1985-280522		19850911
HU 39966	A2	19861128	HU 1985-3430		19850911
PRIORITY APPLN. INFO.:			DE 1984-3433391	A	19840912
			EP 1985-110995	A	19850831

OTHER SOURCE(S): CASREACT 105:24260

GI



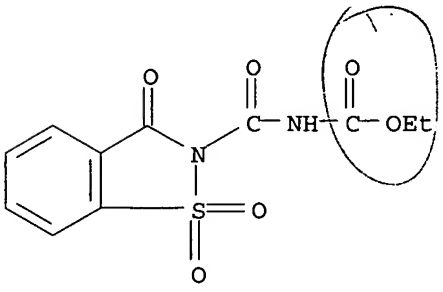
I

AB Title compds. I [R = COR1, SO2OR2; R1 = alkyl, haloalkyl, alkoxy, (un)substituted aryl, etc.; R2 = alkyl, phenyl; Z = O, S] are prepared as bactericides and fungicides. Thus, ethoxycarbonyl isocyanate reacted with saccharin in Me2CO, in the presence of Et3N, to give I (R = EtO2C, Z = O) (II). II gave better protection of rice against Pyricularia oryzae than did the standard 3-allyloxy-1,2-benzisothiazole 1,1-dioxide.

IT **102823-02-9P 102823-03-0P 102823-04-1P**
102823-05-2P 102823-06-3P 102823-07-4P
102823-08-5P 102823-09-6P 102823-11-0P
102823-12-1P 102823-13-2P 102823-14-3P
102823-15-4P 102823-16-5P 102823-17-6P
102823-18-7P 102823-19-8P 102823-20-1P
102823-21-2P 102823-22-3P 102823-24-5P
102823-25-6P 102823-26-7P 102823-27-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as bactericide and fungicide)

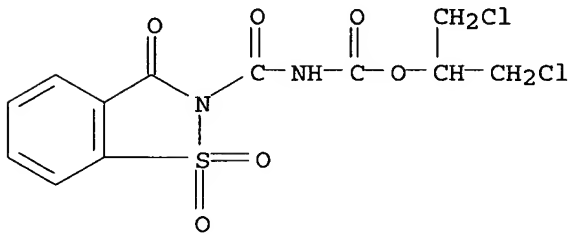
RN 102823-02-9 CAPLUS

CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

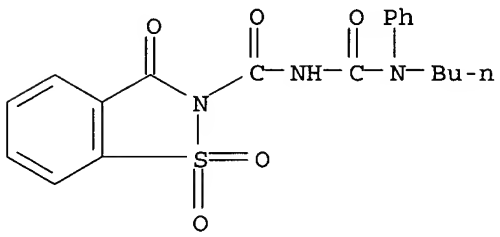


RN 102823-03-0 CAPLUS

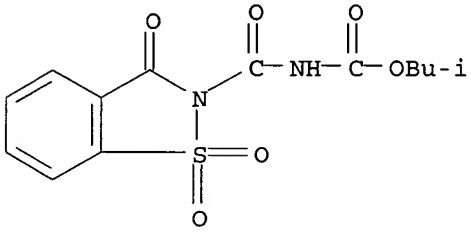
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chloro-1-(chloromethyl)ethyl ester (9CI) (CA INDEX NAME)



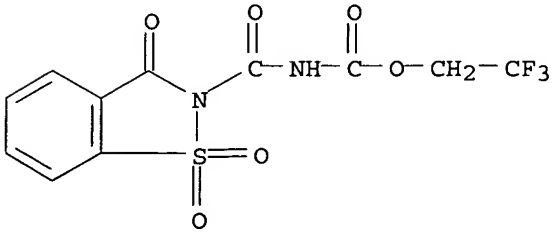
RN 102823-04-1 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(butylphenylamino)carbonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



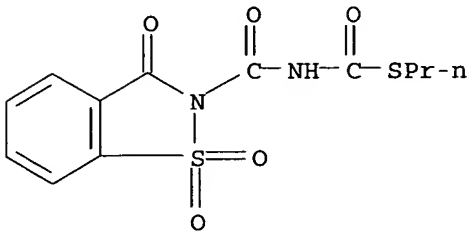
RN 102823-05-2 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-methylpropyl ester (9CI) (CA INDEX NAME)



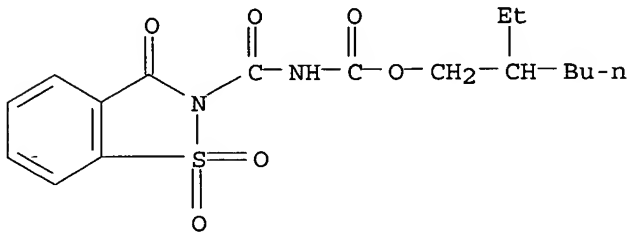
RN 102823-06-3 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2,2,2-trifluoroethyl ester (9CI) (CA INDEX NAME)



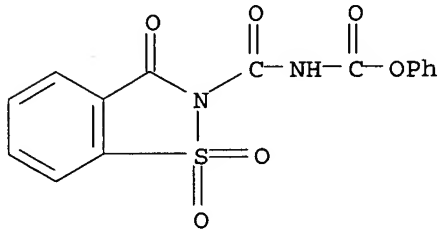
RN 102823-07-4 CAPLUS
CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-propyl ester (9CI) (CA INDEX NAME)



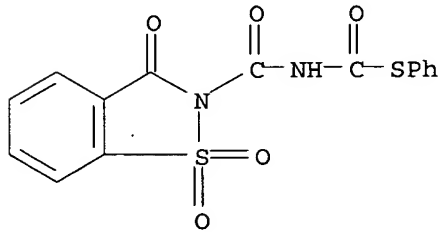
RN 102823-08-5 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-ethylhexyl ester (9CI) (CA INDEX NAME)



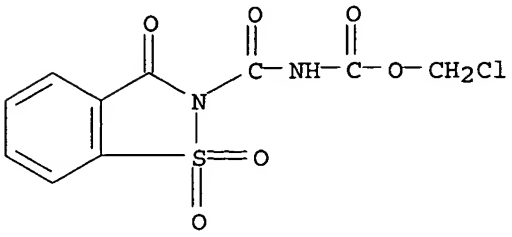
RN 102823-09-6 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



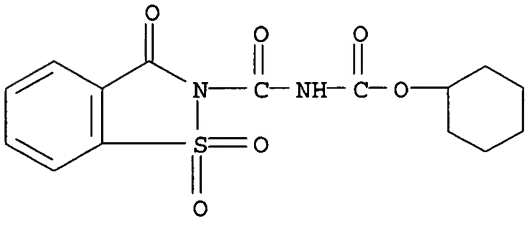
RN 102823-11-0 CAPLUS
CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-phenyl ester (9CI) (CA INDEX NAME)



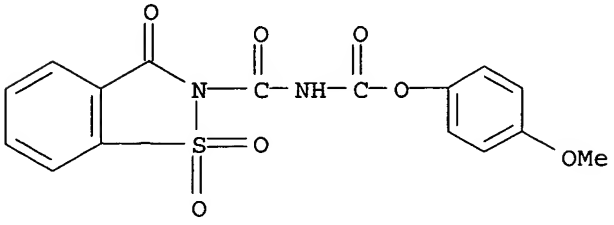
RN 102823-12-1 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, chloromethyl ester (9CI) (CA INDEX NAME)



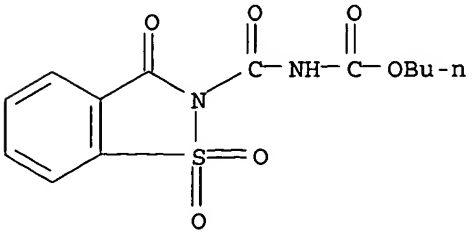
RN 102823-13-2 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, cyclohexyl ester (9CI) (CA INDEX NAME)



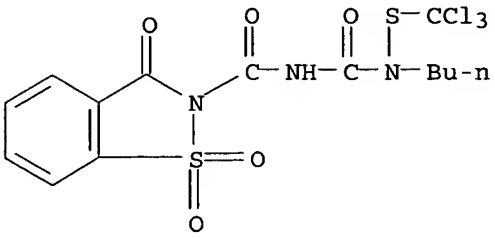
RN 102823-14-3 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 4-methoxyphenyl ester (9CI) (CA INDEX NAME)



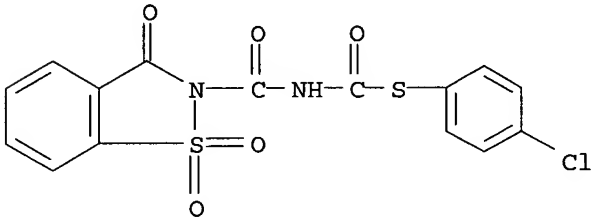
RN 102823-15-4 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, butyl ester (9CI) (CA INDEX NAME)



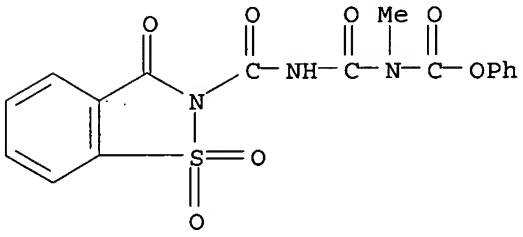
RN 102823-16-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[[butyl[(trichloromethyl)thio]amino]carbonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



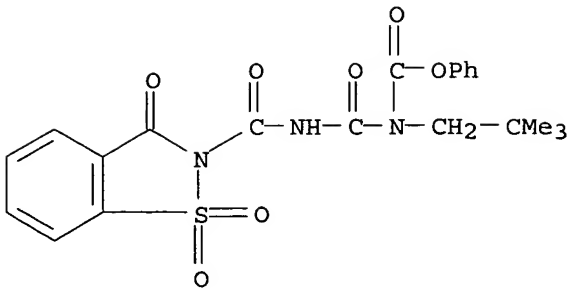
RN 102823-17-6 CAPLUS
CN Carbamothioic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, S-(4-chlorophenyl) ester (9CI) (CA INDEX NAME)



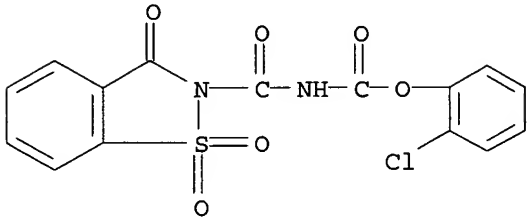
RN 102823-18-7 CAPLUS
CN Carbamic acid, [[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]methyl-, phenyl ester (9CI) (CA INDEX NAME)



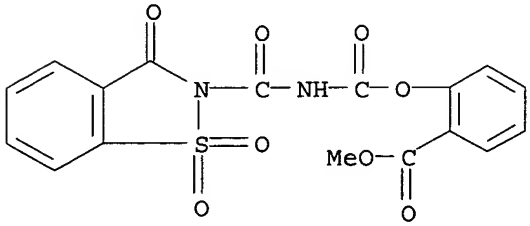
RN 102823-19-8 CAPLUS
CN Carbamic acid, (2,2-dimethylpropyl)[[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



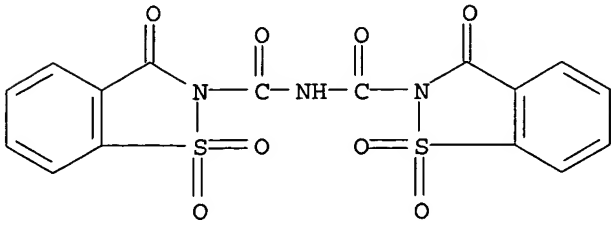
RN 102823-20-1 CAPLUS
CN Carbamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, 2-chlorophenyl ester (9CI) (CA INDEX NAME)



RN 102823-21-2 CAPLUS
CN Benzoic acid, 2-[[[[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]amino]carbonyl]oxy]-, methyl ester (9CI) (CA INDEX NAME)

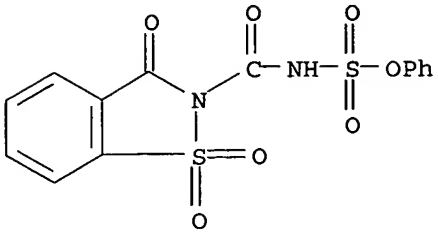


RN 102823-22-3 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

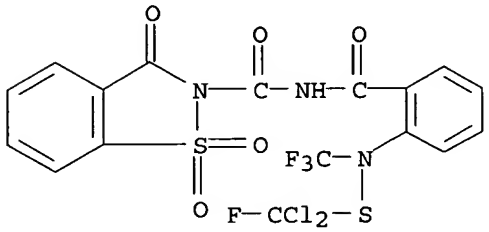


RN 102823-24-5 CAPLUS

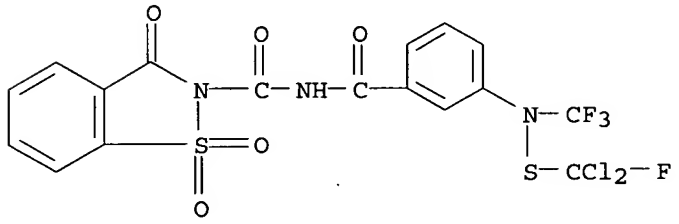
CN Sulfamic acid, [(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]-, phenyl ester (9CI) (CA INDEX NAME)



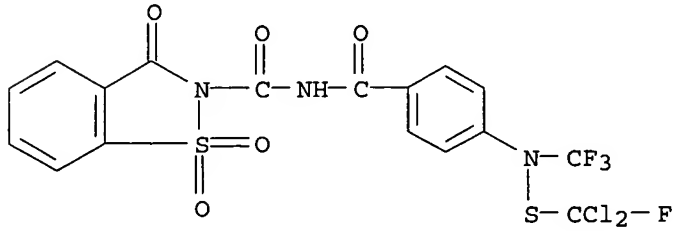
RN 102823-25-6 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[2-[[(dichlorofluoromethyl)thio](trifluoromethyl)amino]benzoyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 102823-26-7 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[3-[[(dichlorofluoromethyl)thio](trifluoromethyl)amino]benzoyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 102823-27-8 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[4-[[(dichlorofluoromethyl)thio](trifluoromethyl)amino]benzoyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)

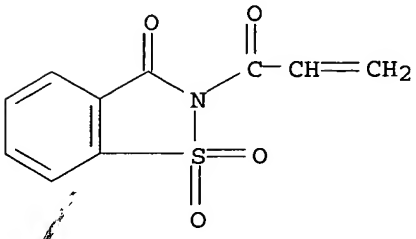


L114 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:633737 CAPLUS
DOCUMENT NUMBER: 93:233737
TITLE: Inhibition of elastase and other serine proteases by heterocyclic acylating agents
AUTHOR(S): Zimmerman, Morris; Morman, Harriet; Mulvey, Dennis; Jones, Howard; Frankshun, Robert; Ashe, Bonnie M.
CORPORATE SOURCE: Merck, Sharp Dohme Res. Lab., Rahway, NJ, 07065, USA
SOURCE: Journal of Biological Chemistry (1980), 255(20), 9848-51
CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The N-acyl saccharins and N-acyl benzoisothiazolinones form a new class of acylating inhibitors of the serine proteases with a broad spectrum of activity. However, they are unique in that they are able to differentiate between various serine proteases because of the differential stability of the presumptive acylenzyme formed. Furoyl saccharin was the best studied among this class of inhibitors. Evidence is reported that the amide bond in the heterocyclic ring of this compound is cleaved by porcine pancreatic and human leukocyte elastases and chymotrypsin, forming acylenzymes. Radioisotope studies indicate that the saccharin portion of furoyl saccharin is attached to these enzymes in approx. a 1:1 molar ratio with enzyme, blocking the active site serine. The acyl-elastases thus prepared are unusually stable to hydrolysis, with kdeacyl values at neutral pH of 2.3 + 10-6 s-1 for porcine pancreatic elastase and 1.4 + 10-6 s for human leukocyte elastase. Trypsin appears to be inhibited by a different mechanism. These data suggest a new approach to the design of specific synthetic protease inhibitors.

IT **41643-17-8**
RL: BIOL (Biological study)
(serine proteinase inhibition by)

RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)

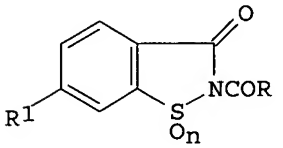


L114 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:502315 CAPLUS
DOCUMENT NUMBER: 87:102315
TITLE: Acylsaccharins and acyl-3-oxo-1,2-benzisothiazolines
INVENTOR(S): Mulvey, Dennis; Jones, Howard; Zimmerman, Morris
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Ger. Offen., 41 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2636599	A1	19770303	DE 1976-2636599	19760813
DE 2636599	C2	19851024		
US 4195023	A	19800325	US 1975-606271	19750820
DK 7603521	A	19770221	DK 1976-3521	19760804
SE 7608748	A	19770221	SE 1976-8748	19760804
SE 434946	B	19840827		
SE 434946	C	19841220		
NL 7608676	A	19770222	NL 1976-8676	19760804
FR 2321288	A1	19770318	FR 1976-25077	19760818
FR 2321288	B1	19781222		
CH 627461	A	19820115	CH 1976-10565	19760819
JP 52025769	A2	19770225	JP 1976-98836	19760820
CH 625232	A	19810915	CH 1980-4357	19800605
PRIORITY APPLN. INFO.:			US 1975-606271 A	19750820
			CH 1976-10565 A	19760819

GI



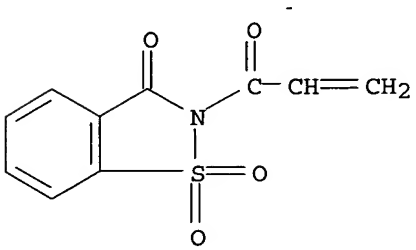
I

AB The title compds. I (R = 2-furyl, R1 = CO2Me, R = 2-furyl, CHEt2, R1 = H, n = 2; R = 2-FC6H4, 2-thienyl, Ph, 3-MeOC6H4, Me3C, CHEt2, cyclopropyl, vinyl, 2-furyl, 4-sulfo-2-furyl, R1 = H, n = 0), useful as elastase inhibitors and thus in treating emphysema, were prepared by acylating the corresponding saccharins or oxobenzisothiazolines with RCOCl, or by cleaving (2-ClCOC6H4S)2 with Cl2 and cyclizing the resultant 2-ClCOC6H4SCl with 2-furamide or Et2CHCONH2. I had inhibitory doses50 of 0.2-2.5 μg/mL against elastase. I (R = 2-furyl, R1 = H, n = 0) gave 74% inhibition of emphysema at 3 mg in hamsters.

IT **41643-17-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and elastase-inhibiting activity of)

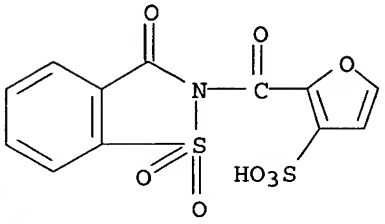
RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



IT **63633-87-4P**

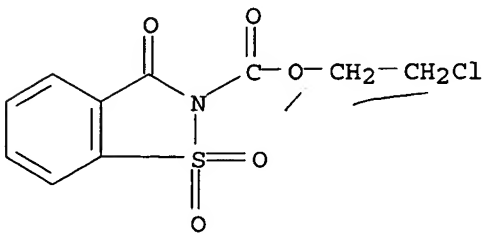
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 63633-87-4 CAPLUS
CN 3-Furansulfonic acid, 2-[(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)carbonyl]- (9CI) (CA INDEX NAME)



L114 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:140119 CAPLUS
DOCUMENT NUMBER: 82:140119
TITLE: 2-Substituted-1,2-benzoisothiazoline-3-oxo-1,1-dioxide
INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi; Ito, Hideo
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 6 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 49020779	B4	19740527	JP 1970-119663		19701228
PRIORITY APPLN. INFO.:			JP 1970-119663	A	19701228

GI For diagram(s), see printed CA Issue.
AB Benzoisothiazolinones I (R1 = Me, ClCH2CH2, Me2CH, Ph, 4-BrC6H4, 4-ClC6H4, 4-MeC6H4, 4-O2NC6H4), useful as bactericides, were prepared by alkoxycarbonylation of saccharin (II) by R1O2CCl with NaCO3 or NaHCO3. Thus, 18.3 g II in MeCN was stirred with ClCH2CH2O2Cl and 8.4 g NaHCO3 2 hr at 40° to give 81% I (R1 = ClCH2CH2).
IT **54952-63-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of bactericidal)
RN 54952-63-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, 2-chloroethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



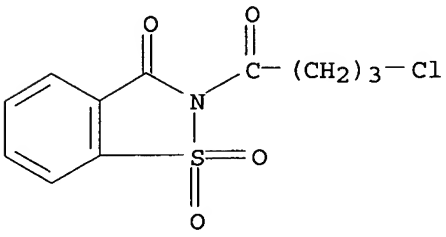
L114 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1973:144282 CAPLUS
DOCUMENT NUMBER: 78:144282
TITLE: Fungicides for agricultural use
INVENTOR(S): Chiyomaru, Isao; Kawada, Seigo; Takita, Kiyoshi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47043332	B4	19721219	JP 1971-31822	19710512
JP 51016497		19760000	JP	

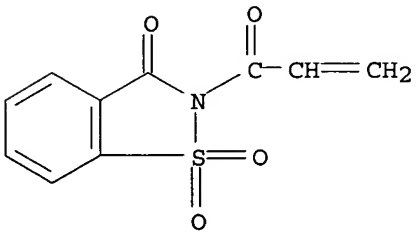
AB Benzisothiazolone dioxide derivs. such as 2-(1-oxopropyl)-1,2-benzisothiazol-3-one 1,1-dioxide (I) [37952-89-9], 2-(1-oxopentyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-31-3], and 2-(1-oxooctyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-32-4] were used as fungicides for plants. These fungicides were effective against Piricularia oryzae, Glomerella cingulata and Phytophthora infestans. I(1.25 kg/10 are) was effective for rice blight.

IT **41643-15-6 41643-17-8**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(fungicides)

RN 41643-15-6 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(4-chloro-1-oxobutyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



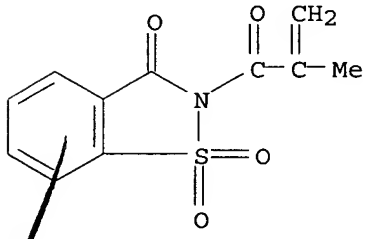
RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1973:124224 CAPLUS
DOCUMENT NUMBER: 78:124224
TITLE: Syntheses of imide derivatives
AUTHOR(S): Kato, Kiyoshi; Yoshida, Matayasu; Ishikawa, Yoichiro
CORPORATE SOURCE: Gov. Ind. Res. Inst., Osaka, Japan
SOURCE: Yuki Gosei Kagaku Kyokaishi (1972), 30(10), 897-9
CODEN: YGKKAE; ISSN: 0037-9980
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB 2-cis-Δ4-Tetrahydrophthalmidoethyl (70.2%), phthalimidomethyl (85.7%), 2-phthalimidoethyl (64.4%), and 2-naphthalimidoethyl (100%) acrylates, 2-cis-Δ4-tetrahydrophthalimidoethyl (72.6%), 2-naphthalimidoethyl (100%), and 2-o-sulfobenzoimidoethyl methacrylates (74.3%), N-acryloylphthalimide (72.1%), N-methacryloyl succinimide (93.4%), N-methacryloylpthalimide (94.4%) and N-methacryloyl-o-sulfobenzoimide (93.6%) were prepared by the condensation of acryloyl chloride or methacryloyl chloride with the imidoalc. or imide and NEt3 at 20-40° in MeCN, Me2CO, dioxane, benzene, or DMF. 2-Phthalimidoethyl methacrylate (93.4%) was prepared by esterification of methacrylic acid with N-(2-hydroxyethyl)phthalimide in the presence of p-MeC6H4SO3H and p-MeC6H4SO3H and p-(HO)2C6H4 in benzene.

IT **40581-15-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 40581-15-5 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(2-methyl-1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1972:564667 CAPLUS
DOCUMENT NUMBER: 77:164667
TITLE: 2-Substituted 1,2-benzoisothiazolin-3-one 1,1-dioxides
INVENTOR(S): Chiyomaru, Isao; Ikeda, Takuro; Takida, Kiyoshi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47020158	B4	19720927	JP 1971-10094	19710227

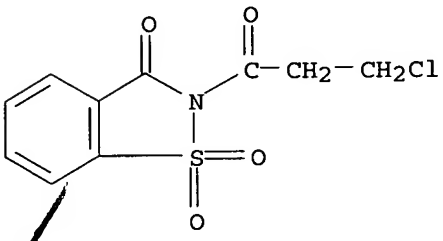
GI For diagram(s), see printed CA Issue.

AB The title compds. (I), antibacterial and antifungal for plants, were prepared by treating saccharin (II) with chloroformates. Thus, II was treated with ClCOEt in C6H6 in the presence of pyridine to give 92.1 I (R = Et). I (R = Me; (CH2)2Cl, iso-Pr, Ph; p-MeC6H4) were similarly prepared

IT **37952-91-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 37952-91-3 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(3-chloro-1-oxopropyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:14533 CAPLUS
DOCUMENT NUMBER: 76:14533
TITLE: 2-Carbamoyl-1,2-benzisothiazolin-3-one 1,1-dioxides
INVENTOR(S): Mine, Seizo; Shioyama, Itaru
PATENT ASSIGNEE(S): Japan Agricultural Chemicals and Insecticides Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 6 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 46036613	B4	19711027	JP	19691203

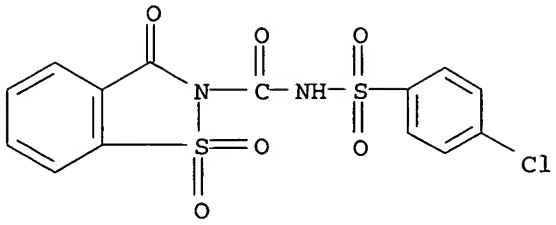
GI For diagram(s), see printed CA Issue.

AB I, useful as a fungicide for phytopathogenic fungi, was prepared Thus, 2-chlorocarbonylsaccharine was gradually added to a solution of PhCH2NH2 in dioxane and the mixture stirred 2 hr to give 71% I (R1 = PhCH2, R2 = H). Similarly prepared were 65 more I.

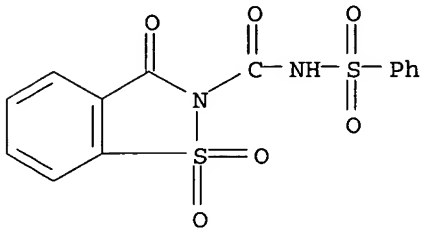
IT **28946-22-7P 28946-23-8P 28946-24-9P**
35131-57-8P 35131-58-9P 35131-59-0P
35131-60-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 28946-22-7 CAPLUS

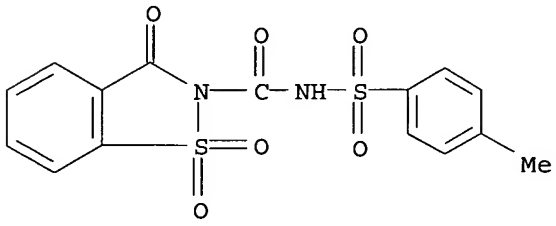
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



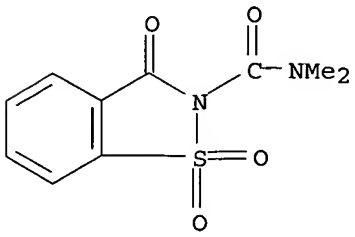
RN 28946-23-8 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



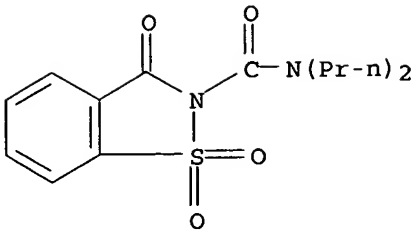
RN 28946-24-9 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



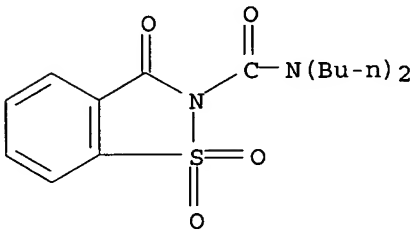
RN 35131-57-8 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dimethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



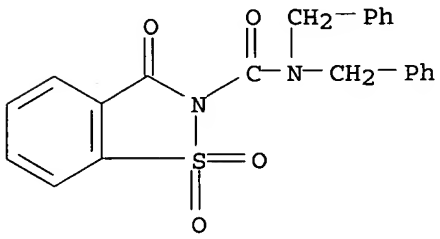
RN 35131-58-9 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N,N-dipropyl-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 35131-59-0 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-dibutyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 35131-60-3 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N,N-bis(phenylmethyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L114 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1970:425448 CAPLUS
DOCUMENT NUMBER: 73:25448
TITLE: Fungicidal 2-(ar)alkylcarbamoylsaccharins
INVENTOR(S): Shioyama, Osamu; Mine, Seizo; Murata, Kikuzo
PATENT ASSIGNEE(S): Japan Agricultural Chemicals Co., Ltd.
SOURCE: Ger. Offen., 38 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1953422	A	19700514	DE 1969-1953422	19691023
DE 1953422	B2	19740801		

DE 1953422	C3	19750327			
JP 48040734	B4	19731203	JP 1968-77381		19681025
GB 1278111	A	19720614	GB 1969-1278111		19691021
US 3699228	A	19721017	US 1969-868236		19691021
PRIORITY APPLN. INFO.:			JP 1968-77381	A	19681025
			JP 1969-71023	A	19690909

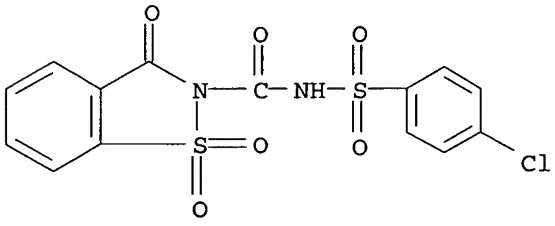
GI For diagram(s), see printed CA Issue.

AB The fungicidal title compds. (I) were prepared in 34.8-97.0% yield either by reaction of the corresponding saccharin with RNCO in the presence of Et3N or pyridine or by reaction of the Na salt of saccharin and COCl2 via the chlorocarbonyl derivative and subsequent reaction with the corresponding amines. Among the 68 compds. prepared were the following I (X, R, and R1 given): O, Me, H; O, Ph, H; O, CH2Ph, H; O, CHMePh, H; O, CH2Ph, 6-Cl; O, Bu, H; O, Pr, H; O, CH2C6H4Me-p, H; O, CH2CH2Ph, H; O, C6H4Me-p, H; O, Me, 5-MeO; S, CH2Ph, H. Compns. of fungicides containing I were reported. I had fungicidal activities especially against Piricularia oryzae, Cladosporium cucumerinum, and Colletotrichum langenarium.

IT **28946-22-7P 28946-23-8P 28946-24-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

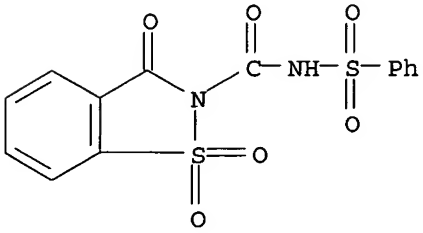
RN 28946-22-7 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-chlorophenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



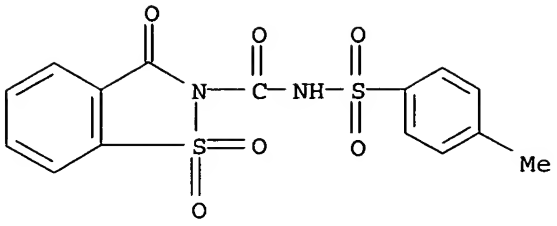
RN 28946-23-8 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, 3-oxo-N-(phenylsulfonyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 28946-24-9 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N-[(4-methylphenyl)sulfonyl]-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



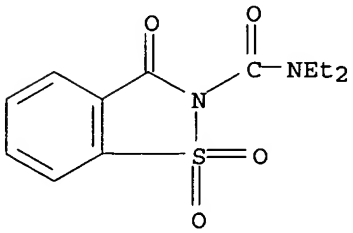
L114 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1962:41812 CAPLUS
DOCUMENT NUMBER: 56:41812
ORIGINAL REFERENCE NO.: 56:7937i,7938a-b
TITLE: Correlation of chemical structure and taste in the saccharin series
AUTHOR(S): Hamor, Glenn H.
CORPORATE SOURCE: Univ. of S. California, Los Angeles
SOURCE: Science (Washington, DC, United States) (1961), 134, 1416-17
CODEN: SCIEAS; ISSN: 0036-8075
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB With approx. 80 saccharin derivs. substitution in the number 2 or 3 position gave tasteless compds. Replacement of the imide H by another chemical group gave, in almost every case, a tasteless compound Both sweet and bitter substances were made tasteless by substitution in the 2 position. Isomerization of the lactam to the lactim form may be necessary for sweet (and bitter) taste. Substitution in the benzene ring of saccharin with the electron-withdrawing nitro group gives a bitter substance. Substitution with an electron-donating group results in a sweet taste. Doubling the saccharin mol. results in a lack of taste. Many saccharin derivs., including saccharin itself, have a bitter taste or a bitter aftertaste. Resonance may play a part in taste.

IT **5443-42-5**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide
(taste of)

RN 5443-42-5 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



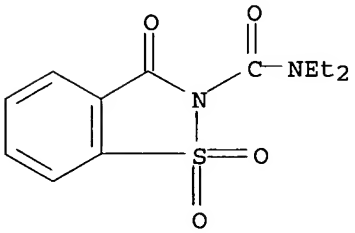
L114 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1961:137433 CAPLUS
DOCUMENT NUMBER: 55:137433
ORIGINAL REFERENCE NO.: 55:25918g-h
TITLE: Saccharin derivatives. IV. Synthesis of

2-(diethylcarbamoyl)- and 2-(diethylthiocarbamoyl)saccharin, and related compounds
AUTHOR(S): Mehta, Satyendra J.; Hamor, Glenn H.
CORPORATE SOURCE: Univ. of S. California, Los Angeles
SOURCE: Journal of Pharmaceutical Sciences (1961), 50, 672-5
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 55:137433

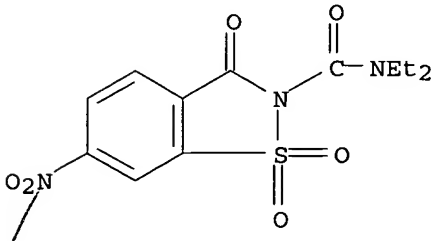
AB cf. CA 54, 15362a. The following compds. were prepared by refluxing the appropriate compound with CHCl3 and Et2NCOCl and recrystg. the product from EtOH (m.p. and % yield given): saccharin derivs.: 2(diethylcarbamoyl), 117-18°, 40; 2-(diethylthiocarbamoyl), 206-7°, 34; 2-(diethylcarbamoyl)-6-nitro, 172-3°, 73; and 2-(carbethoxy), 136°, 65: 1,2-benzisothiazole 1,1-dioxide derivs.: 3-diethylamino, 206-7°, 46.9; 3-diethylamino-6-nitro, 256-7° (Me2CO), 67; and 3-(dimethylamino), 273-4°, 9.

IT **5443-42-5**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide **108676-51-3**, 1,2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide
(preparation of)

RN 5443-42-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxamide, N,N-diethyl-3-oxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 108676-51-3 CAPLUS
CN 2-Benzisothiazoline-2-carboxamide, N,N-diethyl-6-nitro-3-oxo-, 1,1-dioxide (6CI) (CA INDEX NAME)



L114 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1961:27961 CAPLUS
DOCUMENT NUMBER: 55:27961
ORIGINAL REFERENCE NO.: 55:5532b-f
TITLE: Sulfamoyl derivatives of certain saccharins
INVENTOR(S): Novello, Frederick C.

PATENT ASSIGNEE(S): Merck & Co., Inc.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

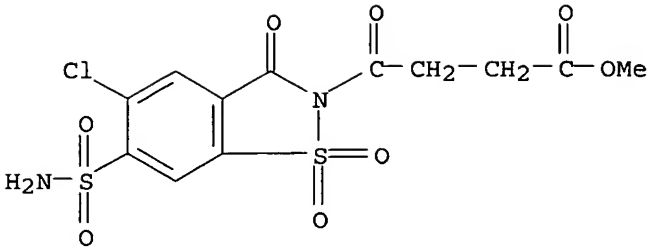
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2957883		19601025	US	
DE 1165033			DE	
FR 1326309			FR	
GB 887711			GB	

AB A series of the title compds., useful as diuretics, was prepared via conventional reactions. Thus, 31.8 g. m-chlorotoluene was added dropwise to 165 ml. chlorosulfonic acid at 0°, the reaction mixture heated 3 hrs. at 150-60° and cooled, and the product precipitated over ice and added portion-wise to 150 ml. 28% NH4OH at 0°. This mixture was heated 2 hrs. at 100° and cooled and the 5-chloro-2,4-disulfamoyl-toluene, m. 256-7° (from aqueous EtOH), collected. Oxidation of this product with alkaline KMnO4 at 100° gave 5-chloro-2,4-disulfamoylbenzoic acid, decomposing 200° (from H2O), which was cyclodehydrated in H2SO4 at 25° to give 5-chloro-6-sulfamoylsaccharin (I), decomposing 273-5° (from 50% aqueous EtOH); di-Na salt of I was prepared from NaOEt in EtOH. Similar 5-substituted-6-sulfamoylsaccharins prepared from suitable m-substituted toluenes were (5-substituent given): fluoro, bromo, methyl, butyl, ethoxy, butoxy, and nitro compds. Reduction of the 5-nitro compound gave 5-amino-6-sulfamoylsaccharin. The isomeric 6-chloro-5-sulfamoylsaccharin was prepared from p-chlorotoluene via 4-chlorotoluene-2,5-disulfonyl chloride, 4-chloro-2,5-disulfamoyltoluene, and 4-chloro-2,5-disulfamoylbenzoic acid. Condensation of I with various compds. in the presence of KOEt in HCONMe2 gave derivs. of I. Substitution took place on the N atom (numbered 2) in the ring system (reactants and 2-substituents of 2-substituted-5-chloro-6-sulfamoylsaccharins given): (CH2Br)2, 2-bromoethyl (II); Br(CH2)3Br, 3-bromopropyl; n-C3H7Br, n-C3H7; CH2:CHCH2Br, allyl; PhCH2Br, PhCH2; PhCH2CH2Br, PhCH2CH2; n-C4H9Br, n-C4H9; phenylacetyl bromide, phenylacetyl; methyl succinoyl chloride, 3-carbomethoxypropionyl; and Et bromoacetate, 2-carbethoxymethyl (III). Alkaline hydrolysis of III gave 2-carboxymethyl-5-chloro-6-sulfamoylsaccharin. Reactions of II with alc. solns. of aqueous NaOH, NH3, n-C3H7NH2, and piperidine gave 2-(2-hydroxyethyl)-, 2-(2-aminoethyl), 2-(2-propylaminoethyl)-, and 2-(2-piperidinoethyl)-5-chloro-6-sulfamoylsaccharin, resp. Directions were given for the preparation of tablets.

IT **104095-24-1**, 1,2-Benzisothiazoline-2-butyric acid, 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide
(preparation of)

RN 104095-24-1 CAPLUS

CN 1,2-Benzisothiazoline-2-butyric acid, 5-chloro-γ,3-dioxo-6-sulfamoyl-, methyl ester, 1,1-dioxide (6CI) (CA INDEX NAME)



Specific structures in application (includes claim 10 + claim 11)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=> file registry
FILE 'REGISTRY' ENTERED AT 14:29:18 ON 29 DEC 2005
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES:   28 DEC 2005  HIGHEST RN 870751-96-5
DICTIONARY FILE UPDATES:  28 DEC 2005  HIGHEST RN 870751-96-5

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                    *
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Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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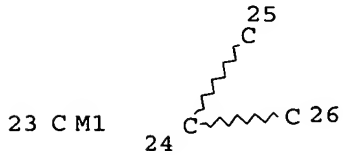
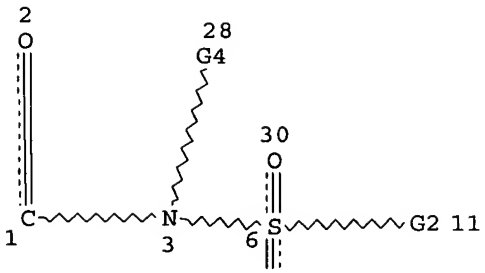
L3 STR

C 27





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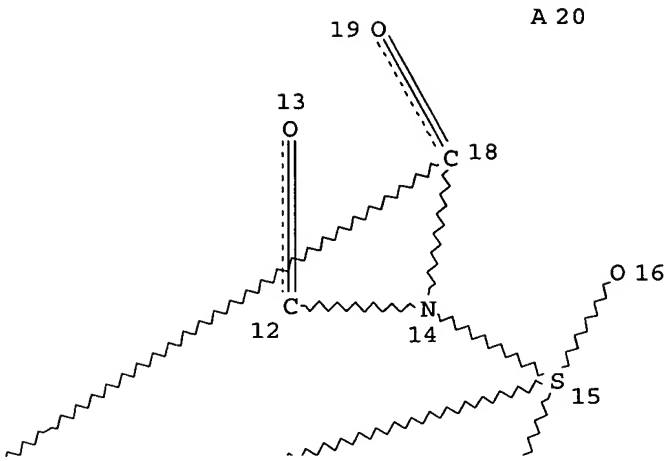
Ak 4

Cy 5

Page 1-B

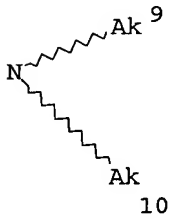
G3 22

8

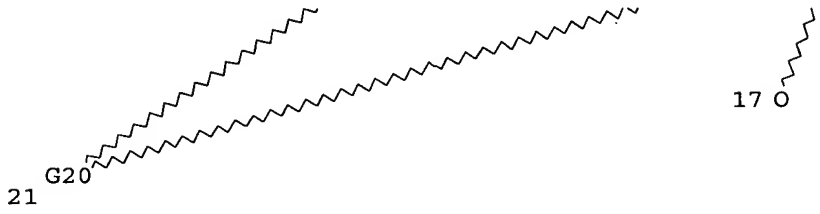


Page 2-A

N 7



Page 2-B



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VAR G3=1/12
VAR G4=5/23/24/27
REP G20=(1-5) 20-15 20-18

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NSPEC   IS C      AT   2
NSPEC   IS C      AT   3
NSPEC   IS C      AT   4
NSPEC   IS C      AT   5
NSPEC   IS C      AT   6
NSPEC   IS R      AT   7
NSPEC   IS C      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
NSPEC   IS C      AT  11
NSPEC   IS C      AT  12
NSPEC   IS C      AT  13
NSPEC   IS R      AT  14
NSPEC   IS R      AT  15
NSPEC   IS C      AT  16
NSPEC   IS C      AT  17
NSPEC   IS R      AT  18
NSPEC   IS C      AT  19
NSPEC   IS R      AT  20
NSPEC   IS R      AT  21
NSPEC   IS C      AT  22
NSPEC   IS C      AT  23
NSPEC   IS C      AT  24
NSPEC   IS C      AT  25
NSPEC   IS C      AT  26
NSPEC   IS C      AT  27
NSPEC   IS C      AT  28
NSPEC   IS C      AT  29
NSPEC   IS C      AT  30
CONNECT IS E1  RC AT  16
CONNECT IS E1  RC AT  17
CONNECT IS E4  RC AT  27
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   1  2  3  4  6  8  9 10 12 13 16 17 19 23 24 25 26
          27 29 30
GGCAT   IS UNS  AT   5
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  30

STEREO ATTRIBUTES: NONE
L4          9125 SEA FILE=REGISTRY SSS FUL L3
L7               STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L11              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L13              STR
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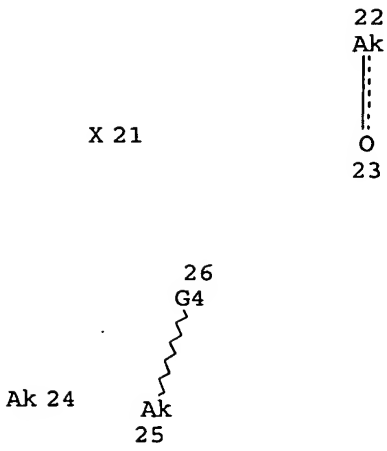
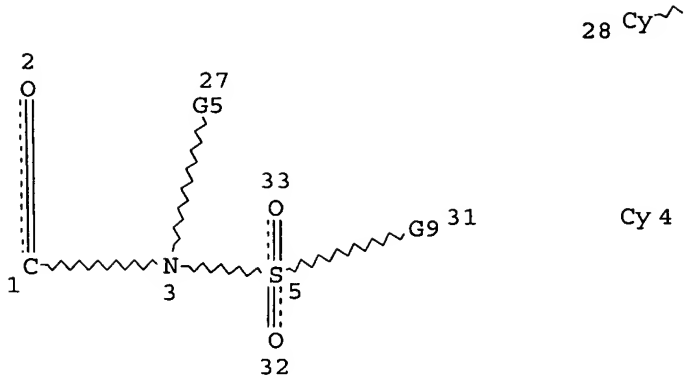


Page 1-A

Ak 29

Page 1-B



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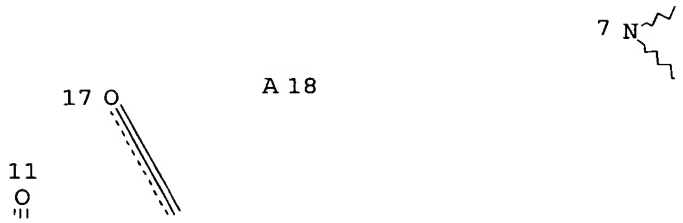
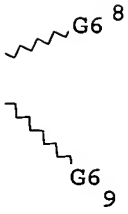
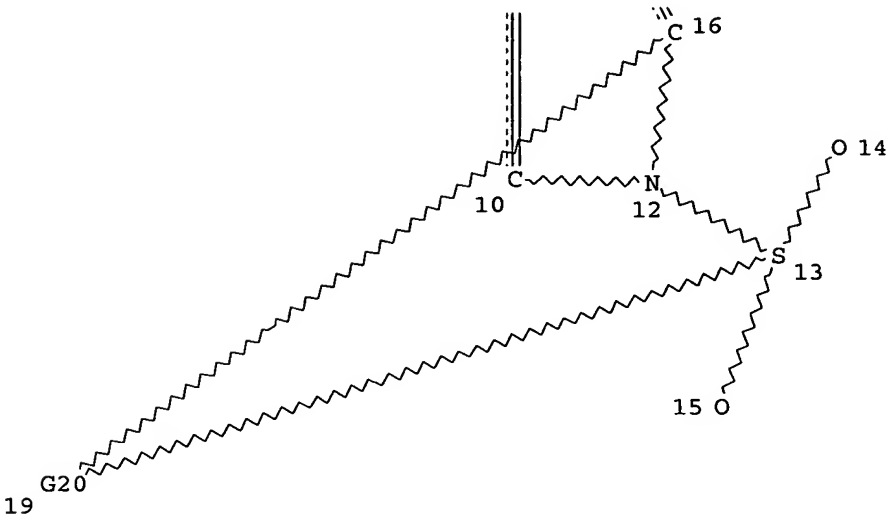


Page 2-A



Page 2-B



Page 3-A
VAR G3=1/10
VAR G4=21/23
VAR G5=4/24/25
VAR G6=24/25
VAR G8=21/23/29
VAR G9=4/6/7/24/25/28
REP G20=(1-5) 18-13 18-16
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NSPEC	IS C	AT	2
NSPEC	IS C	AT	3
NSPEC	IS C	AT	4
NSPEC	IS C	AT	5
NSPEC	IS R	AT	6
NSPEC	IS C	AT	7
NSPEC	IS C	AT	8
NSPEC	IS C	AT	9
NSPEC	IS C	AT	10
NSPEC	IS C	AT	11
NSPEC	IS R	AT	12
NSPEC	IS R	AT	13
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NSPEC	IS C	AT	15
NSPEC	IS R	AT	16
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NSPEC	IS R	AT	18
NSPEC	IS R	AT	19
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NSPEC	IS C	AT	25
NSPEC	IS C	AT	26
NSPEC	IS C	AT	27
NSPEC	IS C	AT	28
NSPEC	IS C	AT	29
NSPEC	IS C	AT	30

```
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NSPEC   IS C      AT  32
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CONNECT IS E1  RC AT   4
CONNECT IS E1  RC AT  14
CONNECT IS E1  RC AT  15
CONNECT IS E1  RC AT  24
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   1  2  3  5  7 10 11 14 15 17 21 22 23 24 25 29 32
          33
GGCAT   IS UNS  AT   4
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  33

STEREO ATTRIBUTES: NONE
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L19         1085 SEA FILE=REGISTRY SUB=L15 SSS FUL L7
L21          754 SEA FILE=REGISTRY SUB=L15 SSS FUL L11
L24              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L26          691 SEA FILE=REGISTRY SUB=L19 SSS FUL L24
L28              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L30          372 SEA FILE=REGISTRY SUB=L21 SSS FUL L28
L34              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
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L44              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L46          210 SEA FILE=REGISTRY SUB=L36 SSS FUL L44
L47              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L49          269 SEA FILE=REGISTRY SUB=L40 SSS FUL L47
L50          315 SEA FILE=REGISTRY ABB=ON  PLU=ON  L49 OR L46
L60           16 SEA FILE=REGISTRY ABB=ON  PLU=ON  L50 AND L2
```

```
=> file caplus
FILE 'CAPLUS' ENTERED AT 14:29:33 ON 29 DEC 2005
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FILE COVERS 1907 - 29 Dec 2005  VOL 144 ISS 1
FILE LAST UPDATED: 28 Dec 2005  (20051228/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d stat que nos L62
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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 29 Dec 2005 (20051229/PD)
FILE LAST UPDATED: 29 Dec 2005 (20051229/ED)
HIGHEST GRANTED PATENT NUMBER: US6981281
HIGHEST APPLICATION PUBLICATION NUMBER: US2005289677
CA INDEXING IS CURRENT THROUGH 29 Dec 2005 (20051229/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 29 Dec 2005 (20051229/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2005

>>>  USPAT2 is now available.  USPATFULL contains full text of the     <<<
>>>  original, i.e., the earliest published granted patents or         <<<
>>>  applications.  USPAT2 contains full text of the latest US         <<<
>>>  publications, starting in 2001, for the inventions covered in     <<<
>>>  USPATFULL.  A USPATFULL record contains not only the original     <<<
>>>  published document but also a list of any subsequent              <<<
>>>  publications.  The publication number, patent kind code, and      <<<
>>>  publication date for all the US publications for an invention     <<<
>>>  are displayed in the PI (Patent Information) field of USPATFULL   <<<
>>>  records and may be searched in standard search fields, e.g., /PN, <<<
>>>  /PK, etc.                                                         <<<

>>>  USPATFULL and USPAT2 can be accessed and searched together        <<<
>>>  through the new cluster USPATALL.  Type FILE USPATALL to          <<<
>>>  enter this cluster.                                               <<<
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>>>  Use USPATALL when searching terms such as patent assignees,       <<<
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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DOCUMENT NUMBER:          142:478402
TITLE:                    N-sulfonylaminocarbonyl containing compounds
INVENTOR(S):              Benson, Karl E.; David, Moses M.; Kipke, Cary A.;
                          Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G.
                          I.; Shah, Rahul R.
PATENT ASSIGNEE(S):       USA
SOURCE:                   U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S.
                          Ser. No. 713,174.
                          CODEN: USXXCO
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   7
PATENT INFORMATION:

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PRIORITY APPLN. INFO.:
US 2003-713174 A2 20031114
US 2003-533169P P 20031230
US 2004-987075 A 20041112
US 2004-987522 A 20041112

OTHER SOURCE(S): MARPAT 142:478402

AB Compds. having two reactive functional groups are described that can be used to provide a connector group between a substrate and an amine-containing material. The first reactive functional group can be used to provide attachment to a surface of a substrate. The second reactive functional group is a N-sulfonylaminocarbonyl group that can be reacted with an amine-containing material, particularly a primary aliphatic amine, to form a carbonylimino-containing connector group. The invention also provides articles and methods for immobilizing amine-containing materials to a substrate.

IT **41643-17-8P 851778-58-0P 851778-59-1P**
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(N-sulfonylaminocarbonyl containing compds.)

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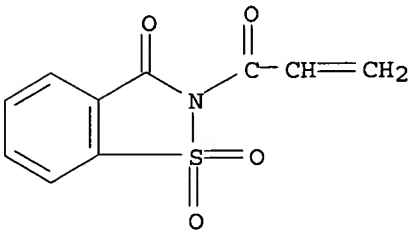

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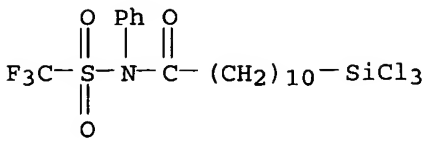

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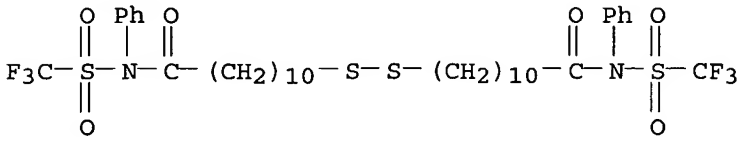

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ester, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)

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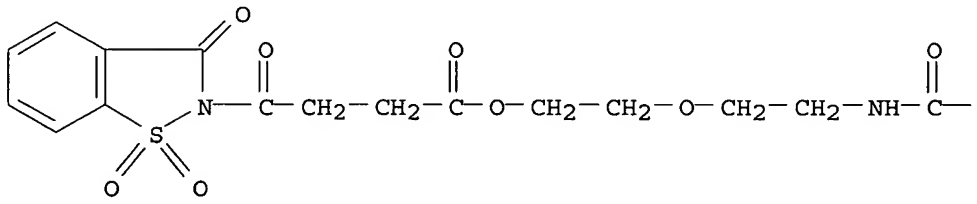

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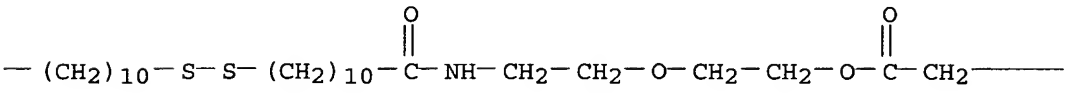

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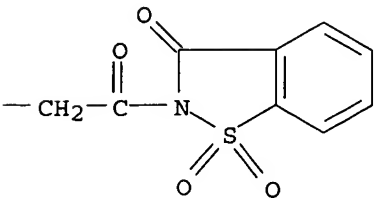

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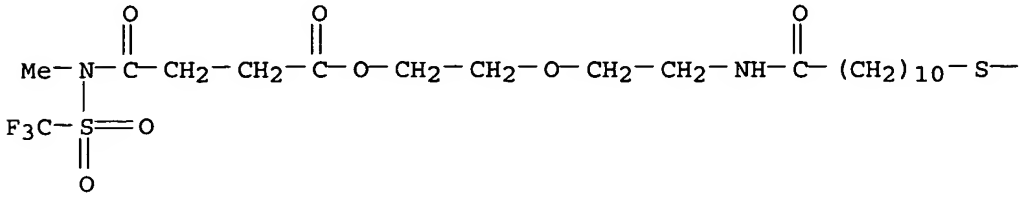

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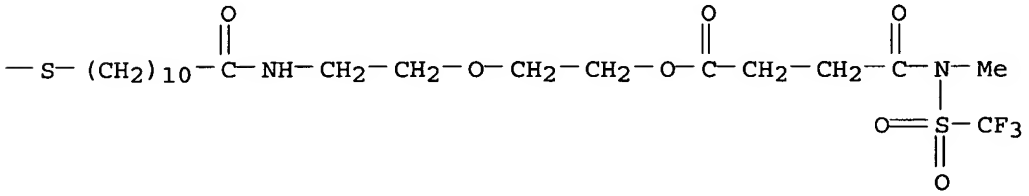

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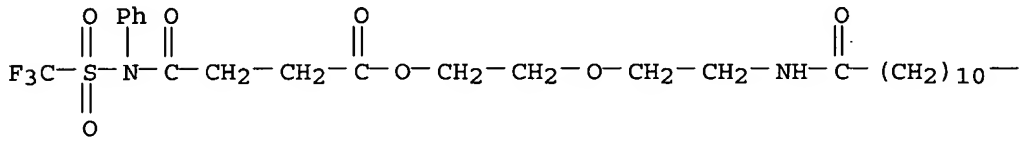

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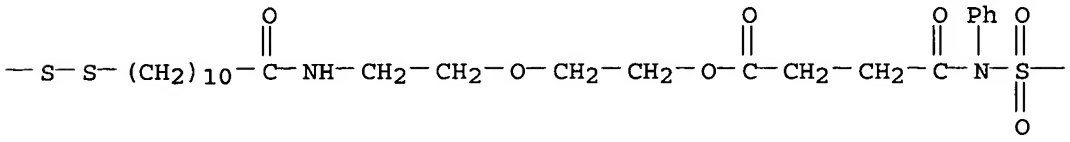

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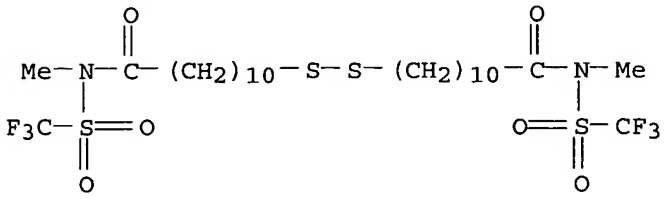

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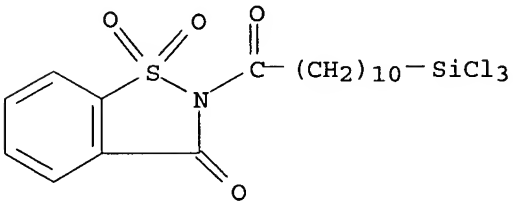

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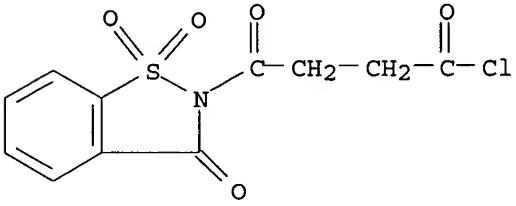

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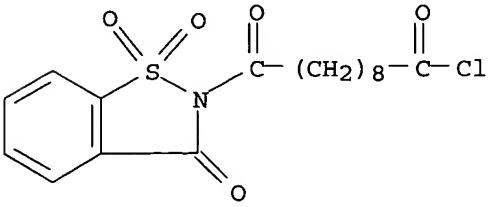

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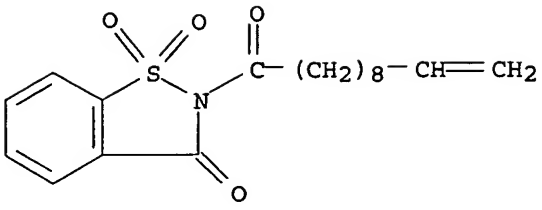

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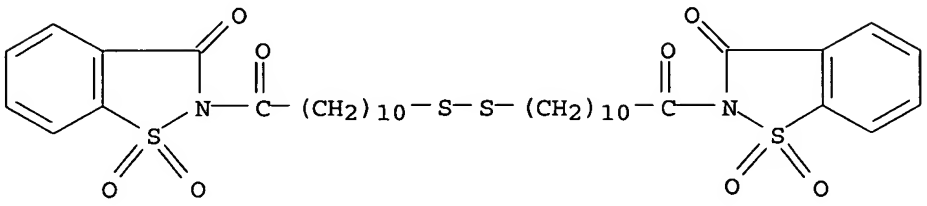

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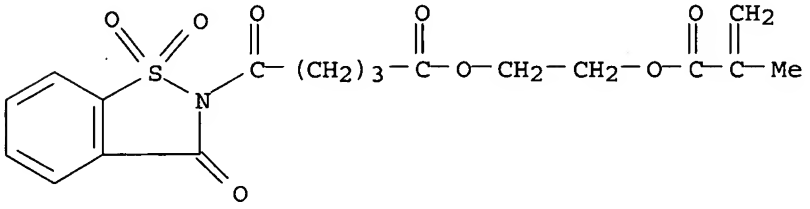
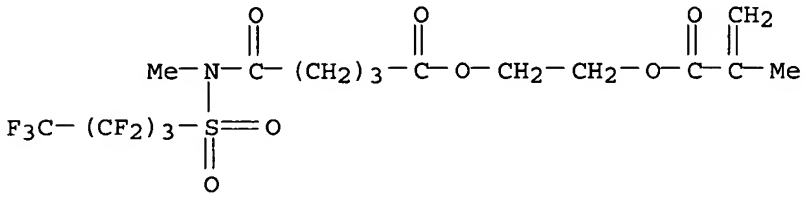


RN 852233-96-6 CAPLUS
CN Pentanoic acid, 5-[methyl[(nonafluorobutyl)sulfonyl]amino]-5-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)



L65 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2
ACCESSION NUMBER: 2005:431463 CAPLUS
DOCUMENT NUMBER: 142:478409
TITLE: N-sulfonylaminocarbonyl containing compounds
INVENTOR(S): Benson, Karl E.; David, Moses M.; Kipke, Cary A.;

Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G.; Shah, Rahul
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S. Pat. Appl. Publ., 37 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005107615	A1	20050519	US 2003-713174	20031114
US 2005112672	A1	20050526	US 2004-987522	20041112
WO 2005049590	A2	20050602	WO 2004-US37965	20041112
WO 2005049590	A3	20050825		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

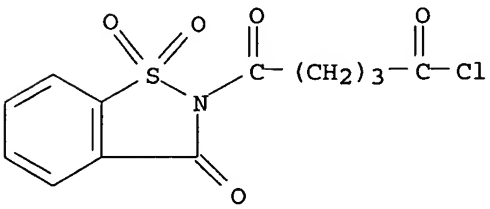
PRIORITY APPLN. INFO.: US 2003-713174 A2 20031114
US 2003-533169P P 20031230

OTHER SOURCE(S): MARPAT 142:478409

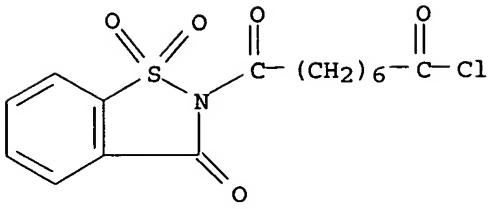
AB Compds. having two reactive functional groups are described that can be used to provide a connector group between a substrate and an amine-containing material. The first reactive functional group can be used to provide attachment to a surface of a substrate. The second reactive functional group is a N-sulfonylaminocarbonyl group that can be reacted with an amine-containing material, particularly a primary aliphatic amine, to form a carbonylimino-containing connector group. The invention also provides articles and methods for immobilizing amine-containing materials to a substrate.

IT **851778-67-1 851778-68-2 851778-69-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-sulfonylaminocarbonyl containing compds.)

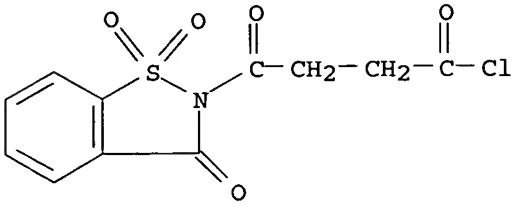
RN 851778-67-1 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoyl chloride, δ,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



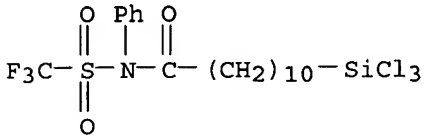
RN 851778-68-2 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-octanoyl chloride, η,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



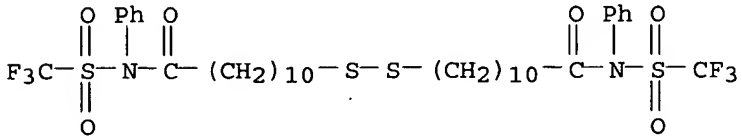
RN 851778-69-3 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-butanoyl chloride, γ,3-dioxo-, 1,1-dioxide (9CI) (CA INDEX NAME)



IT **851778-58-0P 851778-59-1P 851778-60-4P**
851778-61-5P 851778-62-6P 851778-63-7P
851778-65-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(N-sulfonylaminocarbonyl containing compds.)
RN 851778-58-0 CAPLUS
CN Undecanamide, N-phenyl-11-(trichlorosilyl)-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)

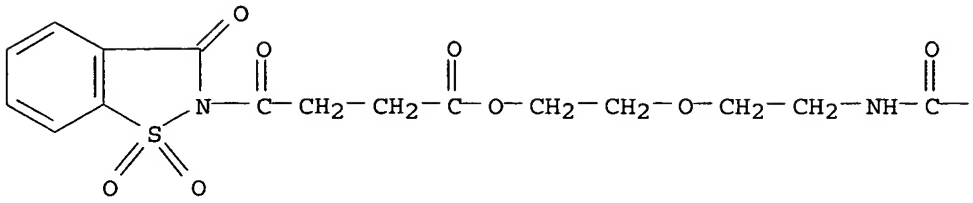


RN 851778-59-1 CAPLUS
CN Undecanamide, 11,11'-dithiobis[N-phenyl-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)

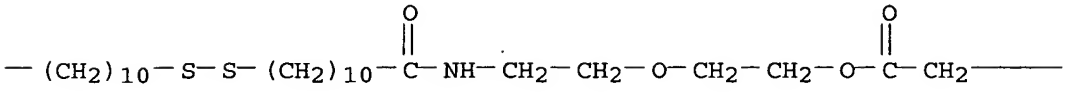


RN 851778-60-4 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-butanoic acid, γ,3-dioxo-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester, 1,1,1',1'-tetraoxide (9CI) (CA INDEX NAME)

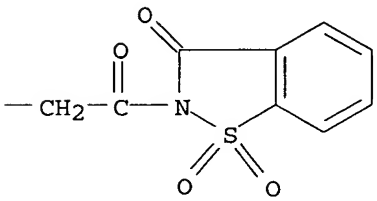
PAGE 1-A



PAGE 1-B

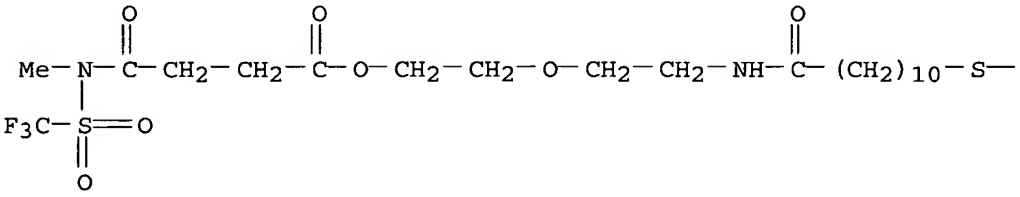


PAGE 1-C

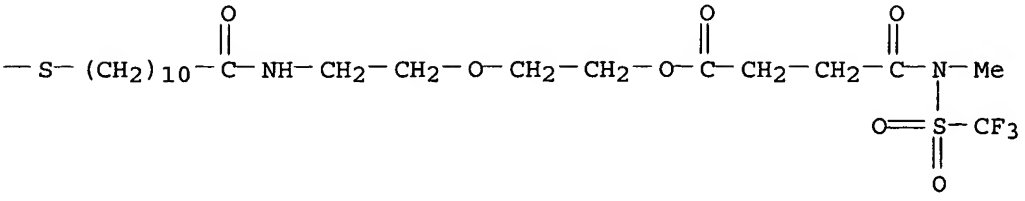


RN 851778-61-5 CAPLUS
CN Butanoic acid, 4-[methyl[(trifluoromethyl)sulfonyl]amino]-4-oxo-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

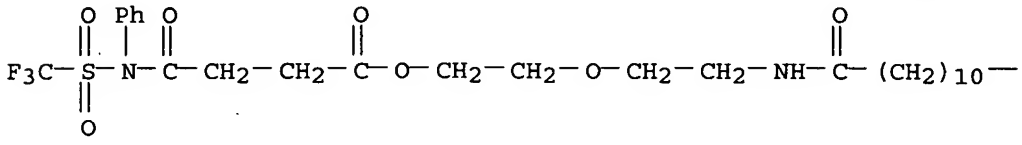


PAGE 1-B

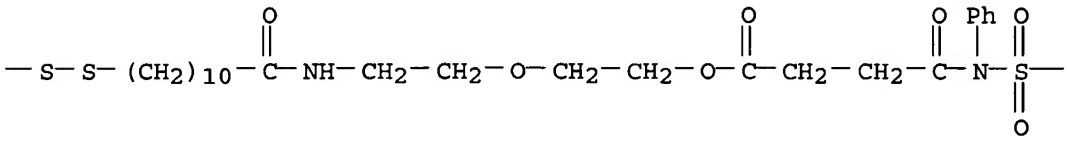


RN 851778-62-6 CAPLUS
CN Butanoic acid, 4-oxo-4-[phenyl[(trifluoromethyl)sulfonyl]amino]-, 7,30-dioxo-3,34-dioxa-18,19-dithia-6,31-diazahexatriacontane-1,36-diyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

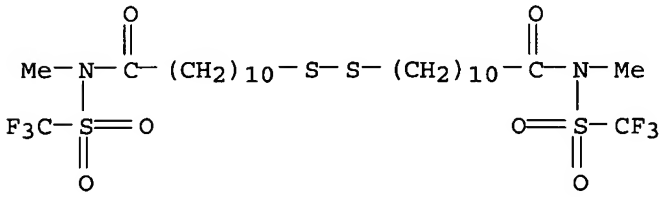


PAGE 1-B

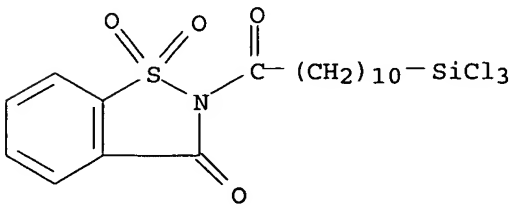


PAGE 1-C

RN 851778-63-7 CAPLUS
CN Undecanamide, 11,11'-dithiobis[N-methyl-N-[(trifluoromethyl)sulfonyl]- (9CI) (CA INDEX NAME)



RN 851778-65-9 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



L65 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:638826 CAPLUS
DOCUMENT NUMBER: 143:149406
TITLE: Acoustic sensors and methods
INVENTOR(S): Baetzold, John P.; Benson, Karl E.; Bommarito, Mario G.; Daniels, Michael P.; Everaerts, Albert I.; Flanigan, Peggy-Jean P.; Free, Benton M.; Kipke, Cary A.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G. I.; Nguyen, Lang N.; Shah, Rahul; Stark, Peter A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005066092	A2	20050721	WO 2004-US42382	20041217
WO 2005066092	A3	20051013		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2005112672	A1	20050526	US 2004-987522	20041112
US 2005227076	A1	20051013	US 2004-987075	20041112
WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM				
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WO 2005075973	A2	20050818	WO 2004-US42662	20041217
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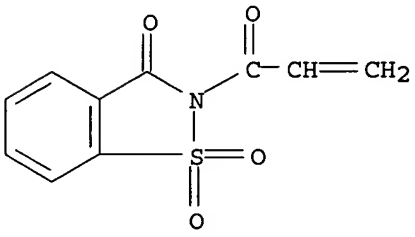
PRIORITY APPLN. INFO.:

US 2003-533169P	P	20031230
US 2004-987075	A	20041112
US 2004-987522	A	20041112
US 2003-713174	A2	20031114
US 2003-714053	A2	20031114

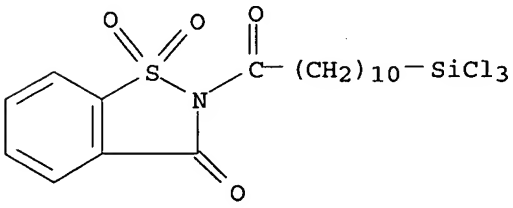
AB This article discloses acoustic sensors, preferably surface acoustic wave sensors, and more preferably shear horizontal surface acoustic wave sensors that include soluble polymers, monomers (optionally mixed with oligomers and/or polymers formed from such monomers), or multifunctional compds., for example, that can function as either waveguide materials, immobilization materials for secondary capture agents (e.g., antibodies), or both.

IT **41643-17-8P 851778-65-9P 852233-93-3P 852233-95-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(acoustic sensors and methods)

RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 851778-65-9 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-[1-oxo-11-(trichlorosilyl)undecyl]-, 1,1-dioxide (9CI) (CA INDEX NAME)



RN 852233-93-3 CAPLUS
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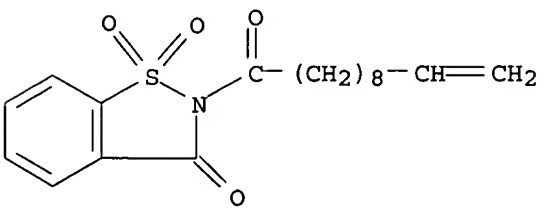
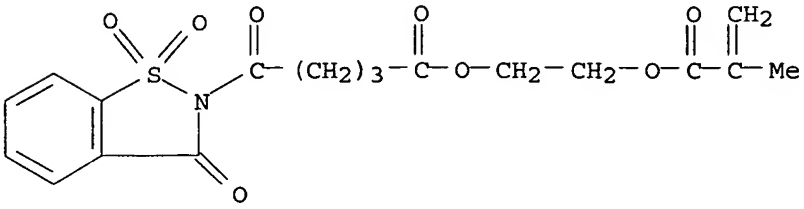


RN 852233-95-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



L65 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:638661 CAPLUS
DOCUMENT NUMBER: 143:134114
TITLE: Soluble polymers as amine capture agents and methods
INVENTOR(S): Benson, Karl E.; Bommarito, G. Marco; Everaerts, Albert I.; Lakshmi, Brinda B.; Leir, Charles M.; Moore, George G. I.; Shah, Rahul R.; Stark, Peter A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005065370	A2	20050721	WO 2004-US43917	20041229
WO 2005065370	A3	20050811		
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WO 2005064349	A2	20050714	WO 2004-US42455	20041217
WO 2005064349	A3	20051110		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM				
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WO 2005075973 A2 20050818 WO 2004-US42662 20041217
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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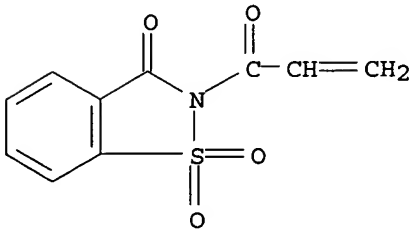
PRIORITY APPLN. INFO.: US 2003-533169P P 20031230
US 2004-15399 A 20041217

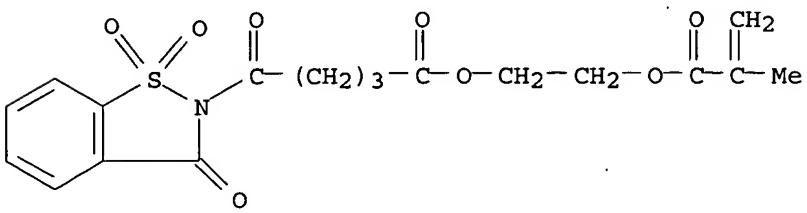
AB The invention relates to soluble polymers and methods for the preparation thereof,
wherein the polymers of the present invention have pendant acylsulfonamide amine-reactive groups that can be used for the capture of amine containing materials. Thus, mixing 154 mL DMF with 4-carboxybenzenesulfonamide (I) 30.0, succinic anhydride 16.41 and triethylamine 33.19 g at 50° under N for 4 h, after cooling to room temperature, combining the resulting mixture with 18.27 mL Ac2O, stirring for 1 h and working up gave a N-succinimide compound of I which was converted to an acyl chloride using thionyl chloride. Esterifying the succinimide with 2-hydroxyethyl methacrylate and polymerizing the resulting ester with a comonomer gave a polymer having amine-reactive pendant.

IT **41643-17-8P**, 2-Acryloylsaccharin **852233-95-5P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(manufacture of soluble polymers as amine capture agents and method of use)

RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



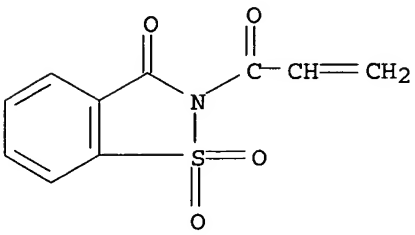
RN 852233-95-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-pentanoic acid, δ,3-dioxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, 1,1-dioxide (9CI) (CA INDEX NAME)



L65 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:633737 CAPLUS
DOCUMENT NUMBER: 93:233737
TITLE: Inhibition of elastase and other serine proteases by heterocyclic acylating agents
AUTHOR(S): Zimmerman, Morris; Morman, Harriet; Mulvey, Dennis; Jones, Howard; Frankshun, Robert; Ashe, Bonnie M.
CORPORATE SOURCE: Merck, Sharp Dohme Res. Lab., Rahway, NJ, 07065, USA
SOURCE: Journal of Biological Chemistry (1980), 255(20), 9848-51
CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The N-acyl saccharins and N-acyl benzoisothiazolinones form a new class of acylating inhibitors of the serine proteases with a broad spectrum of activity. However, they are unique in that they are able to differentiate between various serine proteases because of the differential stability of the presumptive acylenzyme formed. Furoyl saccharin was the best studied among this class of inhibitors. Evidence is reported that the amide bond in the heterocyclic ring of this compound is cleaved by porcine pancreatic and human leukocyte elastases and chymotrypsin, forming acylenzymes. Radioisotope studies indicate that the saccharin portion of furoyl saccharin is attached to these enzymes in approx. a 1:1 molar ratio with enzyme, blocking the active site serine. The acyl-elastases thus prepared are unusually stable to hydrolysis, with kdeacyl values at neutral pH of 2.3 + 10-6 s-1 for porcine pancreatic elastase and 1.4 + 10-6 s for human leukocyte elastase. Trypsin appears to be inhibited by a different mechanism. These data suggest a new approach to the design of specific synthetic protease inhibitors.

IT **41643-17-8**
RL: BIOL (Biological study)
(serine proteinase inhibition by)
RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)

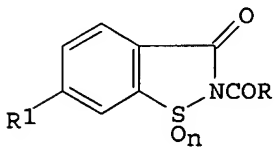


L65 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:502315 CAPLUS
DOCUMENT NUMBER: 87:102315
TITLE: Acylsaccharins and acyl-3-oxo-1,2-benzisothiazolines
INVENTOR(S): Mulvey, Dennis; Jones, Howard; Zimmerman, Morris
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Ger. Offen., 41 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2636599	A1	19770303	DE 1976-2636599	19760813
DE 2636599	C2	19851024		
US 4195023	A	19800325	US 1975-606271	19750820
DK 7603521	A	19770221	DK 1976-3521	19760804
SE 7608748	A	19770221	SE 1976-8748	19760804
SE 434946	B	19840827		
SE 434946	C	19841220		
NL 7608676	A	19770222	NL 1976-8676	19760804
FR 2321288	A1	19770318	FR 1976-25077	19760818
FR 2321288	B1	19781222		
CH 627461	A	19820115	CH 1976-10565	19760819
JP 52025769	A2	19770225	JP 1976-98836	19760820
CH 625232	A	19810915	CH 1980-4357	19800605
PRIORITY APPLN. INFO.:			US 1975-606271 A	19750820
			CH 1976-10565 A	19760819

GI



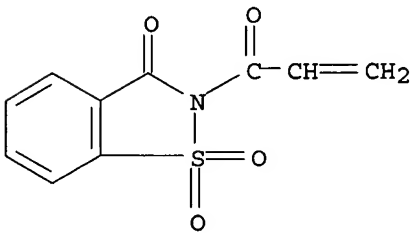
I

AB The title compds. I (R = 2-furyl, R1 = CO2Me, R = 2-furyl, CHEt2, R1 = H, n = 2; R = 2-FC6H4, 2-thienyl, Ph, 3-MeOC6H4, Me3C, CHEt2, cyclopropyl, vinyl, 2-furyl, 4-sulfo-2-furyl, R1 = H, n = 0), useful as elastase inhibitors and thus in treating emphysema, were prepared by acylating the corresponding saccharins or oxobenzisothiazolines with RCOCl, or by cleaving (2-ClCOC6H4S)2 with Cl2 and cyclizing the resultant 2-ClCOC6H4SCl with 2-furamide or Et2CHCONH2. I had inhibitory doses50 of 0.2-2.5 μg/mL against elastase. I (R = 2-furyl, R1 = H, n = 0) gave 74% inhibition of emphysema at 3 mg in hamsters.

IT **41643-17-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and elastase-inhibiting activity of)

RN 41643-17-8 CAPLUS

CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



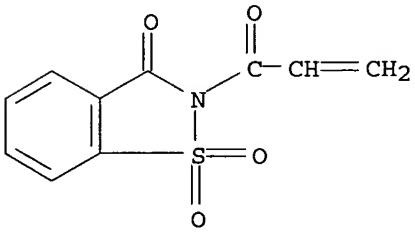
L65 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1973:144282 CAPLUS
DOCUMENT NUMBER: 78:144282
TITLE: Fungicides for agricultural use
INVENTOR(S): Chiyomaru, Isao; Kawada, Seigo; Takita, Kiyoshi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47043332	B4	19721219	JP 1971-31822	19710512
JP 51016497		19760000	JP	

AB Benzisothiazolone dioxide derivs. such as 2-(1-oxopropyl)-1,2-benzisothiazol-3-one 1,1-dioxide (I) [37952-89-9], 2-(1-oxopentyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-31-3], and 2-(1-oxooctyl)-1,2-benzisothiazol-3-one 1,1-dioxide [40199-32-4] were used as fungicides for plants. These fungicides were effective against Piricularia oryzae, Glomerella cingulata and Phytophthora infestans. I(1.25 kg/10 are) was effective for rice blight.

IT **41643-17-8**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(fungicides)

RN 41643-17-8 CAPLUS
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)



L65 ANSWER 8 OF 8 USPATFULL on STN
ACCESSION NUMBER: 80:15015 USPATFULL
TITLE: 2-(2-Furoyl)1,2-benzisothiazole-3-one, 2-(2-furoyl) saccharin, and 2-(2-thenoyl) saccharin
INVENTOR(S): Mulvey, Dennis, Milford, NJ, United States
Jones, Howard, Holmdel, NJ, United States
Zimmerman, Morris, Watchung, NJ, United States
PATENT ASSIGNEE(S): Merck & Co., Inc., Rahway, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 4195023		19800325	
APPLICATION INFO.:	US 1975-606271		19750820	(5)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Rizzo, Nicholas S.
ASSISTANT EXAMINER: Jones, Lisa
LEGAL REPRESENTATIVE: Westlake, Jr., Harry E., Speer, Jr., Raymond M.
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 786
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Certain novel acyl saccharins and acyl 3-oxo-1,2-benzisothiazolines, their preparation, pharmaceutical compositions and novel methods of inhibiting elatase and treating emphysema are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **41643-17-8P**
(preparation and elastase-inhibiting activity of)
RN 41643-17-8 USPATFULL
CN 1,2-Benzisothiazol-3(2H)-one, 2-(1-oxo-2-propenyl)-, 1,1-dioxide (9CI) (CA INDEX NAME)